ORDER NO. AD0008145C2

Service Manual

Amplifier

SE-HDA710

Colour

(N).....Gold Type

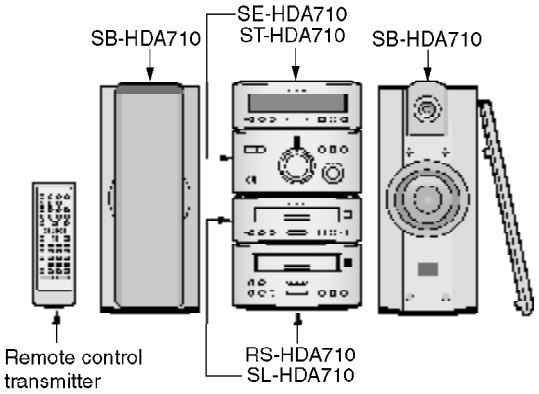
Areas

EB.....Great Britain.

EG.....Europe.

System: SC-HDA710

Because of unique interconnecting cables, when a compact requires service, send or bring in the entire system.



SPECIFICATIONS

Specification

■ **Amplifier Section (Low frequency side)**

Power output

DIN 100Hz, THD 1%, 4 Ω both channels driven:	**2x12W**
RMS 100Hz, THD 10%, 4 Ω both channels driven:	**2x15W**
Load impedance:	**4 Ω**

■ **Amplifier Section (Mid Frequency side)**

Power output

DIN 1kHz, THD 1%, 8 Ω both channels driven:	**2x8W**
RMS 1kHz, THD 10%, 8 Ω both channels driven:	**2x10W**
Total harmonic distortion	
Half power at 1kHz 8 Ω :	**0.09%**
Load impedance:	**8 Ω**
S/N:	**81dB**
S/N (2V Input, Rated power output):	**100dB**

■ **Amplifier Section (High frequency side)**

Power output

DIN 10kHz, THD 1%, 4 Ω . both channels driven:	**2x4W**
RMS 10kHz, THD 10%, 4 Ω both channels driven:	**2x5W**
Load impedance:	**4 Ω**

■ **Headphones**

Jack type:	**3.5mm STEREO**
Load impedance:	**16-32 Ω**

■ **General**

Power consumption	**115W**
STANDBY condition	**Normal:11W**
	Eco:0.9W
Power supply	
[For (EG) area]:	**AC230V,50Hz**
[For (EB) area]:	**AC230-240V,50Hz**
Dimensions (WxHxD):	**196x105.8x261mm**
Weight:	**3.6kg**

Notes:

1.Design and specifications are subject to change without notice.

2.Dimensions and weight are approximate.

3.Total harmonic distortion is measured by the digital spectrum analyzer.

■ **System/SC-HDA710:**

Tuner:ST-HDA710, DVD Audio/Video Player: SL-HDA710, Amplifier: SE-HDA710 , Cassette Deck: RS-HDA710, Speakers: SB-HDA710 (Made in MAES.)

(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ♆ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF - KEEP DRY.

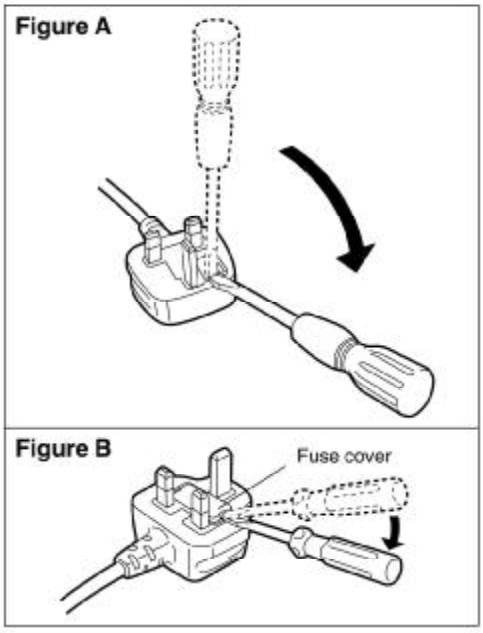
Before use

Remove the connector cover.

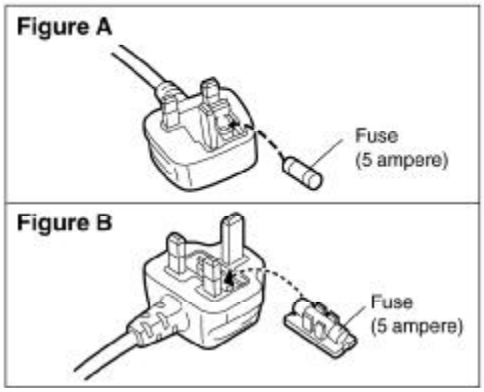
How to replace the fuse

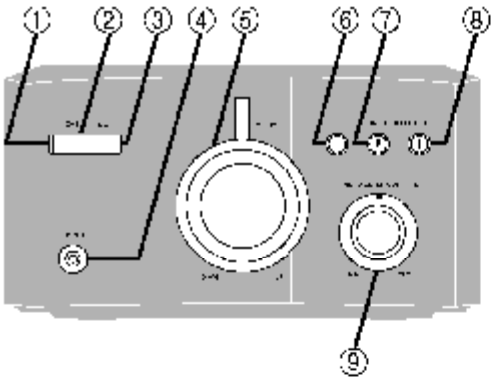
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.





Amplifier

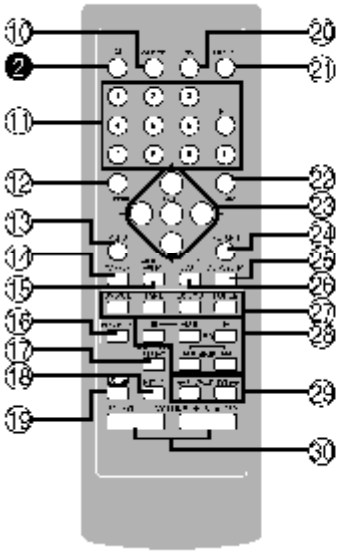
① **Standby indicator**
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
② **Standby/on switch (⏻/I)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
③ **ECO mode button (MODE)**
④ **Headphone jack (PHONES)**
⑤ **Volume control (VOLUME)**
⑥ **Bass button (BLFS)**
⑦ **Input selector (INPUT SELECTOR ▼)**
⑧ **Input selector (INPUT SELECTOR ▲)**
⑨ **Fine tweeter control** (FINE TWEETER CONTROL)

Remote control

Button ❷ functions in the same way as the control on the main unit.

⑩ **Sleep timer button (SLEEP)**
⑪ **Numbered buttons**
⑫ Top **menu/subtitle button (TOP MENU, SUBTITLE)**
⑬ **Menu button (MENU)**
⑭ **Marker button (MARKER)**
⑮ **Audio/angle button (AUDIO, ANGLE)**
⑯ **Play mode select button (PLAY MODE)**
⑰ **Repeat/A-B repeat button (REPEAT, A-B REPEAT)**
⑱ **Muting/multi button (MUTING, MULTI)**
⑲ **Shift button (SHIFT)**
⑳ **Display button (DISP)**
㉑ **Cancel button (CANCEL)**
㉒ **Group/time search button (GROUP, TIME SEARCH)**
㉓ **Cursor/enter buttons**
㉔ **Return button (RETURN)**
㉕ **Auto/mono select button (AUTO/MONO)**
㉖ **On screen display/set up button (OSD, SET UP)**
㉗ **Input select buttons (DVD/CD, TAPE, EXT/MD, TUNER)**
㉘ **Basic operating buttons**
Function changes according to the source.

MD deck operations (when connected to MD deck SJ-HDA710 (sold separately))
㉙ **Slow/search, page button (◀◀ SLOW/SEARCH ▶▶, –PAGE+)**
㉚ **Volume/balance buttons (–VOLUME+, BALANCE L, BALANCE R)**



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⚠ WARNING

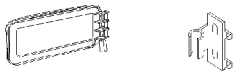
This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics®

1. Accessories

• FM indoor antenna·····1pc.
(RSA0007)

• AM loop antenna set·····1pc.
(RSA0022-J)



• Remote control transmitter·····1pc.
(RAK-HDA37WH)

• Speaker cord
(REE0993)·····2pcs.

• AC power supply cord·····1pc.
For (EB) area: (RJA0053-2X)
For (EG) area: (RJA0019-1X)

• Antenna plug adaptor·····1pc.
For (EB) area only
(SJP9009)

• Remote control batteries·····2pcs.
Note: These are available on sales root.

• Video connection cable...1pc.
(RJL1P019B15)

2. Before Repair and Adjustment

1. Turn off the power supply. Using a 10 Ω, 10W resistor, connect both ends of power supply capacitors (C102-105, 127) in order to discharge the voltage.
2. Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50/60 Hz in NO SIGNAL mode should be shown below withrespect to supply voltage 230 V/240 V.

Areas	(EG)		(EB)	
Power supply voltage	AC 230V		AC 230-240V	
Consumed current	50 Hz	90-180 mA	50 Hz	90-180 mA

3. About the Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:
***No sound is heard when the power is supplied.**
***Sound stops during a performance.**
The functions of this circuitry is to prevent circuitry damage, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedande less than the indicated rated impedance of thisunit are used.
If this occurs, follow the procedure outlined below:

1. Press the STANDBY ⏻/ON button, switch to STANDBY mode.

2. Determine the cause of the problem and correct it.

3. Press the STANDBY ⏻/ON button once again, supply the power.

Note:

When the protection circuitry functions, the unit will not operate unless the STANDBY ⏻/ON button is first switched STANDBY and then ON again.

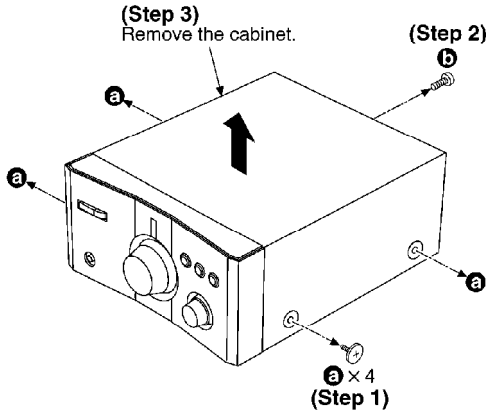
4. Caution for AC Main Lead

5. Operating Instructions

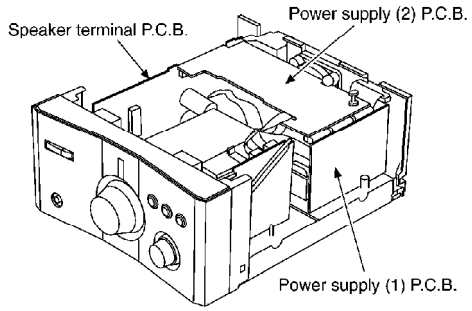
6. Operation Checks and Component Replacement Procedures

- This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
- For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.

6.1. Checking for the power supply (1) P.C.B., power supply (2) P.C.B. and speaker terminal P.C.B.

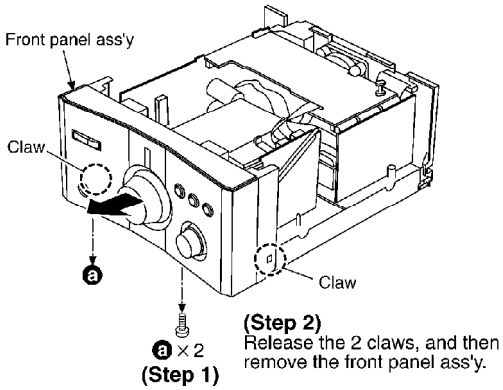


- Check the power supply (1) P.C.B., power supply (2) P.C.B. and speaker terminal P.C.B. as shown below.

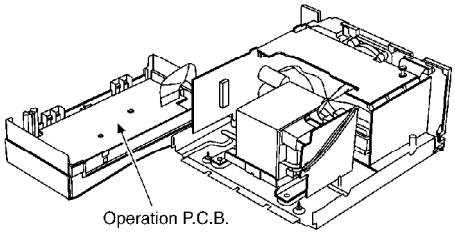


6.2. Checking for the operation P.C.B.

- Follow the (Step 1) - (Step 3) of item 6.1.

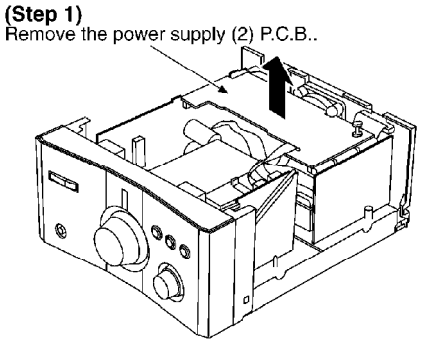


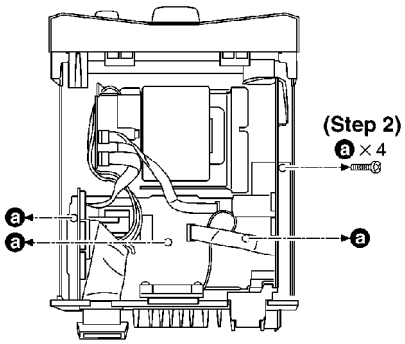
- Check the operation P.C.B. as shown below.

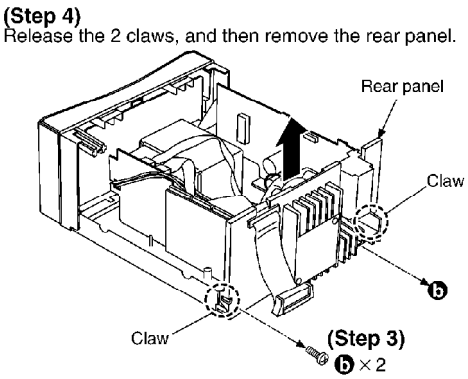


6.3. Checking for the main P.C.B.

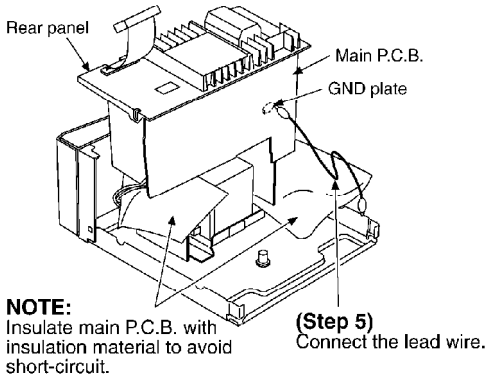
- Follow the (Step 1) - (Step 3) of item 6.1.







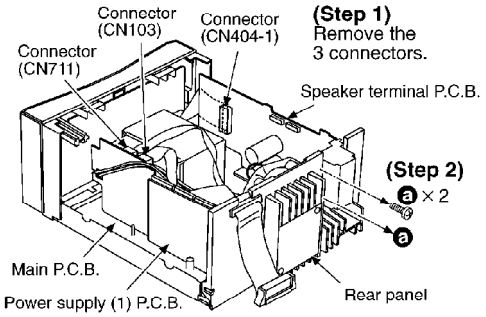
- Check the main P.C.B. as shown below.



6.4. Replacement for the power IC

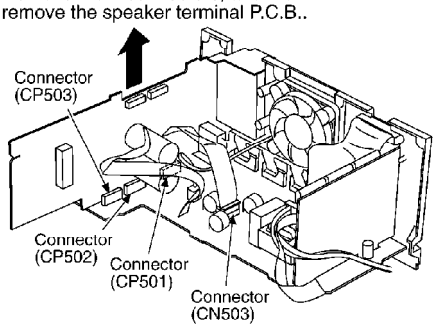
- Follow the (Step 1) - (Step 3) of item 6.1.

- Follow the (Step 1) - (Step 4) of item 6.3.

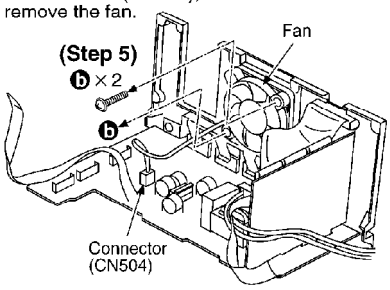


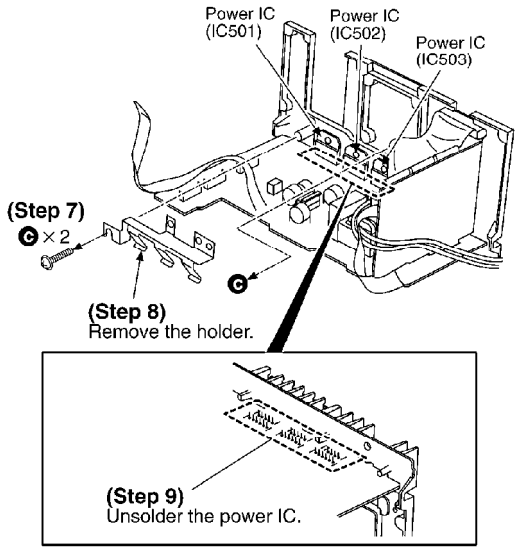
(Step 3)
Remove the main P.C.B., power supply (1) P.C.B. and speaker terminal P.C.B..

(Step 4)
Remove the 4 connectors, and then remove the speaker terminal P.C.B..



(Step 6)
Remove the connector (CN504), and then remove the fan.





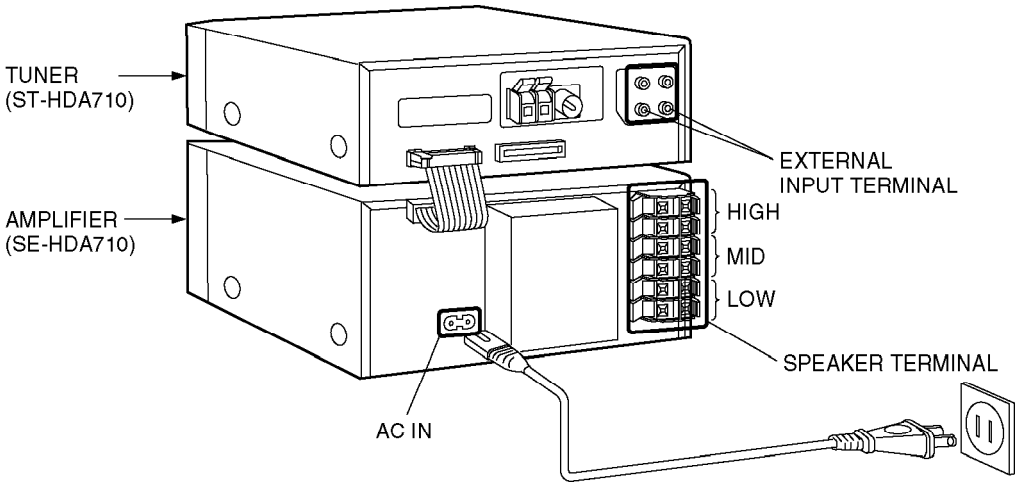
NOTE:
When mounting the power IC apply silicone conpound (RFKX0002) to the rear side of power IC.

7. Power Source ON/OFF and Signal Check

To operate this unit SE-HDA710 normally, it is necessary for connecting with the unit ST-HDA710. / When operating the unit SE-HDA710, be sure to connect the unit ST-HDA710 by connection cable.

1. **Connect with the Tuner (ST-HDA710). (As shown in Fig. 1)**
2. **Connect the AC mains lead to Amplifier (SE-HDA710). (As shown in Fig. 1)**
3. **Connect the speakers to speaker terminal. (As shown in Fig. 1)**
4. **Turn on the power of the Amplifier (SE-HDA710).**
5. **Press INPUT SELECTOR to select the external source (EXT/MD) of the Amplifier (SE-HDA710).**
6. **Input a sound signal to external input terminal of Tuner (ST-HDA710), and confirm to be outputted from the speaker. (Every ranges of “High“, “Mid“ and “Low“.)**

Fig. 1



8. Schematic Diagram Notes

8.1. Type Illustration of IC's, Transistors and Diodes

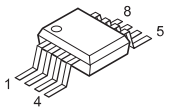
8.2. Schematic Diagram Notes

- This schematic diagram may be modified at any time with the development of new technology.

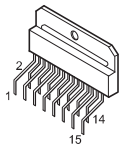
Notes:

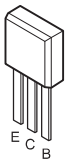
- S301: Power "STANDBY / ON" ( ) switch in "ON" position.
- S302: Eco mode (MODE) switch in "OFF" position.
- S303: Input selector(INPUT SELECTOR ▲) switch.
- S304: Input selector (INPUT SELECTOR ▼) switch .
- S305: BLFS (BLFS) switch.
- VR301: Volume V.R.
- VR401: Fine tweeter control V.R.
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance)with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internalimpedance of the DC circuit tester.
No mark: Power ON
- Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors),

M5218AFPE3
NJM4580EDTE1



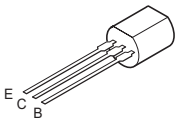
LM1876TF





2SA1309ATA
2SC3311ATA
UN4111TA
UN4211TA
UN4115TA

2SB621AQRSTA
2SD592AQRSTA



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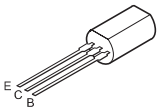
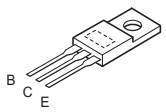
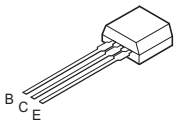


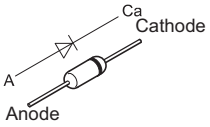
2SD2374PQAU



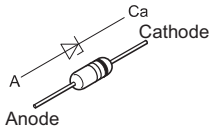
2SD2144STA

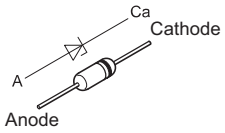


MA165TA



MA4051MTA
MA4062MTA





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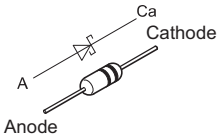
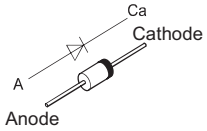
MA4110MTA
MA4130MTA
MA4150MTA
MA4160MTA

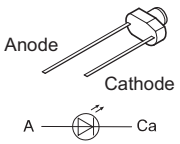
MA719TA



RL1N4003N02
1N5402BM21



SLR-325VC



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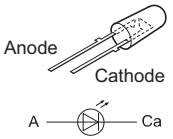
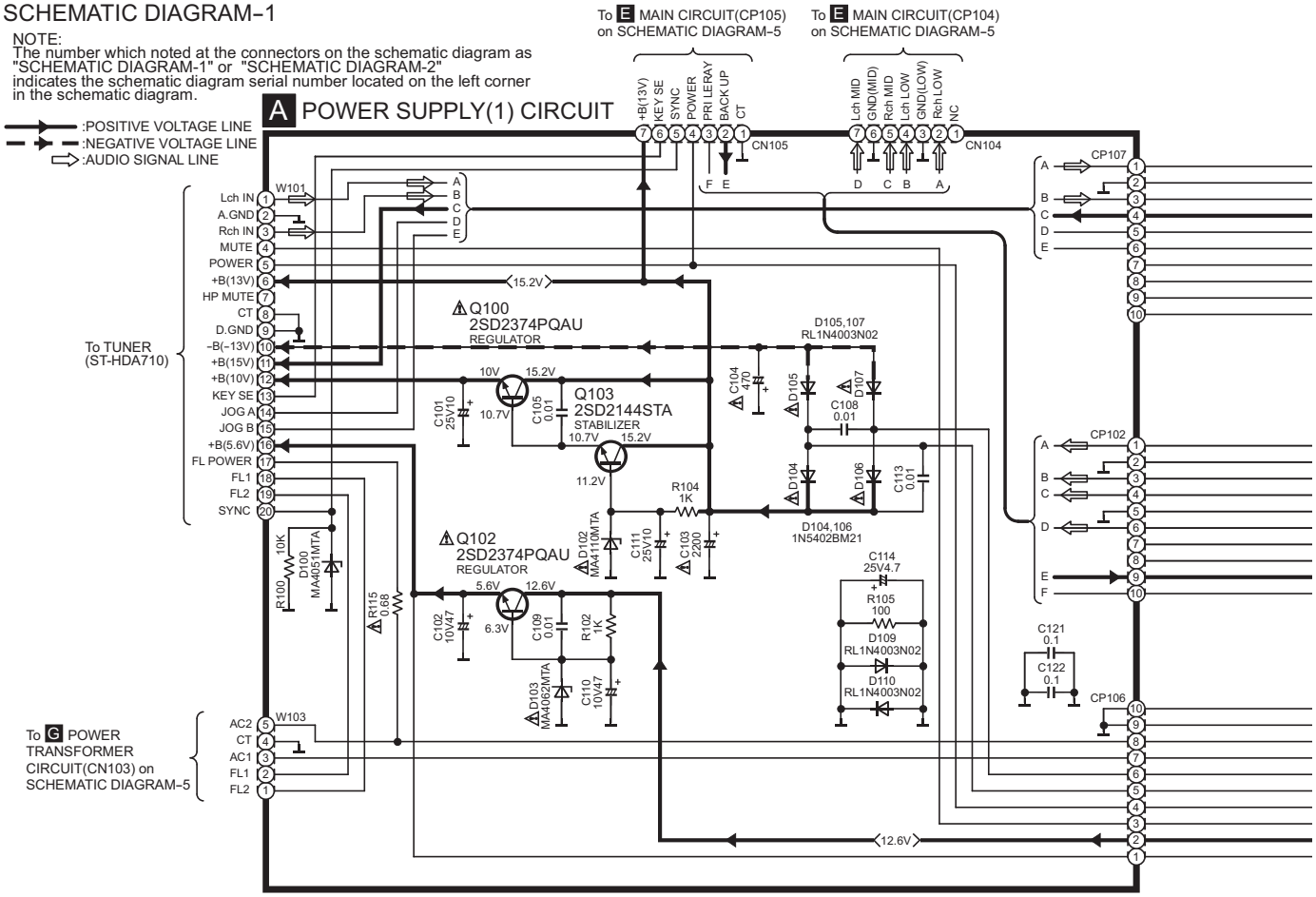
LNW0A8CYBZ



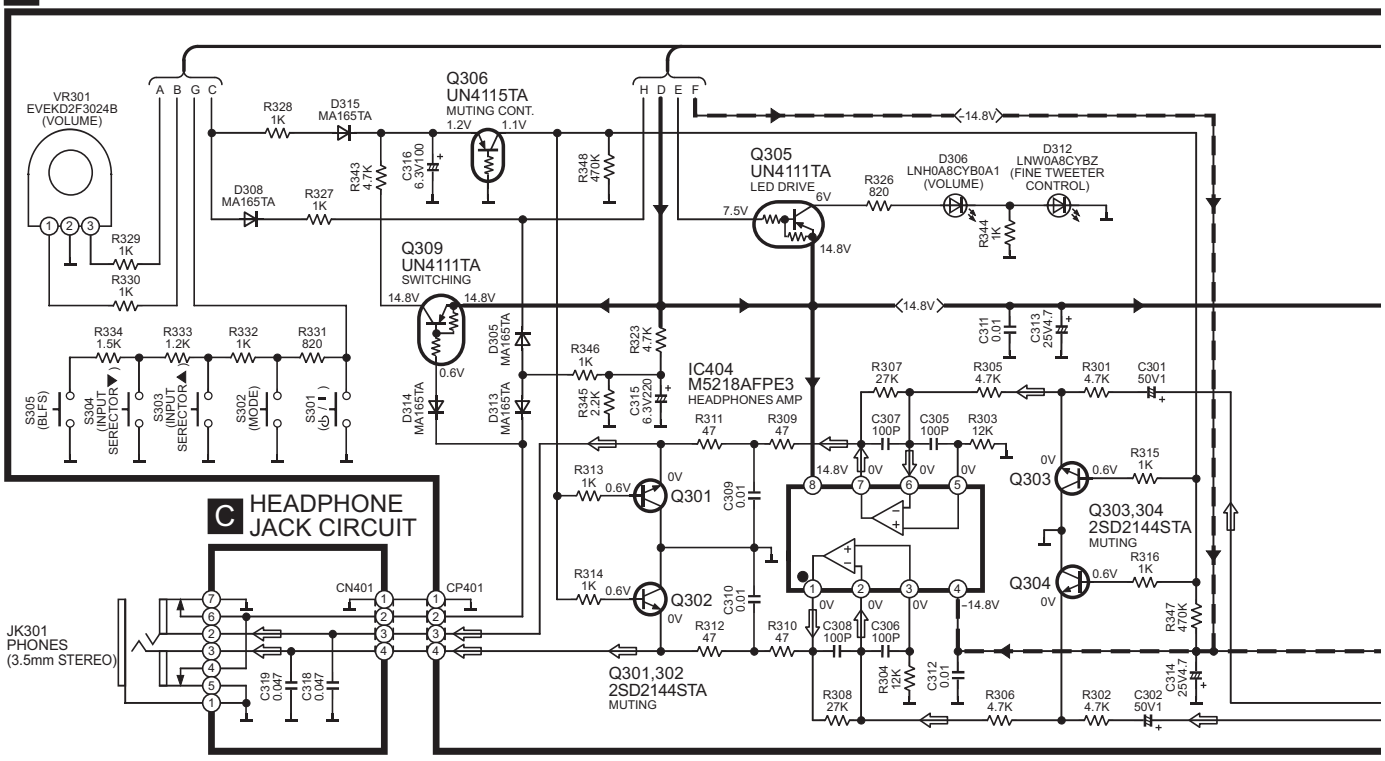
SCHEMATIC DIAGRAM–1

NOTE:
The number which noted at the connectors on the schematic diagram as "SCHEMATIC DIAGRAM-1" or "SCHEMATIC DIAGRAM-2" indicates the schematic diagram serial number located on the left corner in the schematic diagram.

:POSITIVE VOLTAGE LINE
:NEGATIVE VOLTAGE LINE
:AUDIO SIGNAL LINE



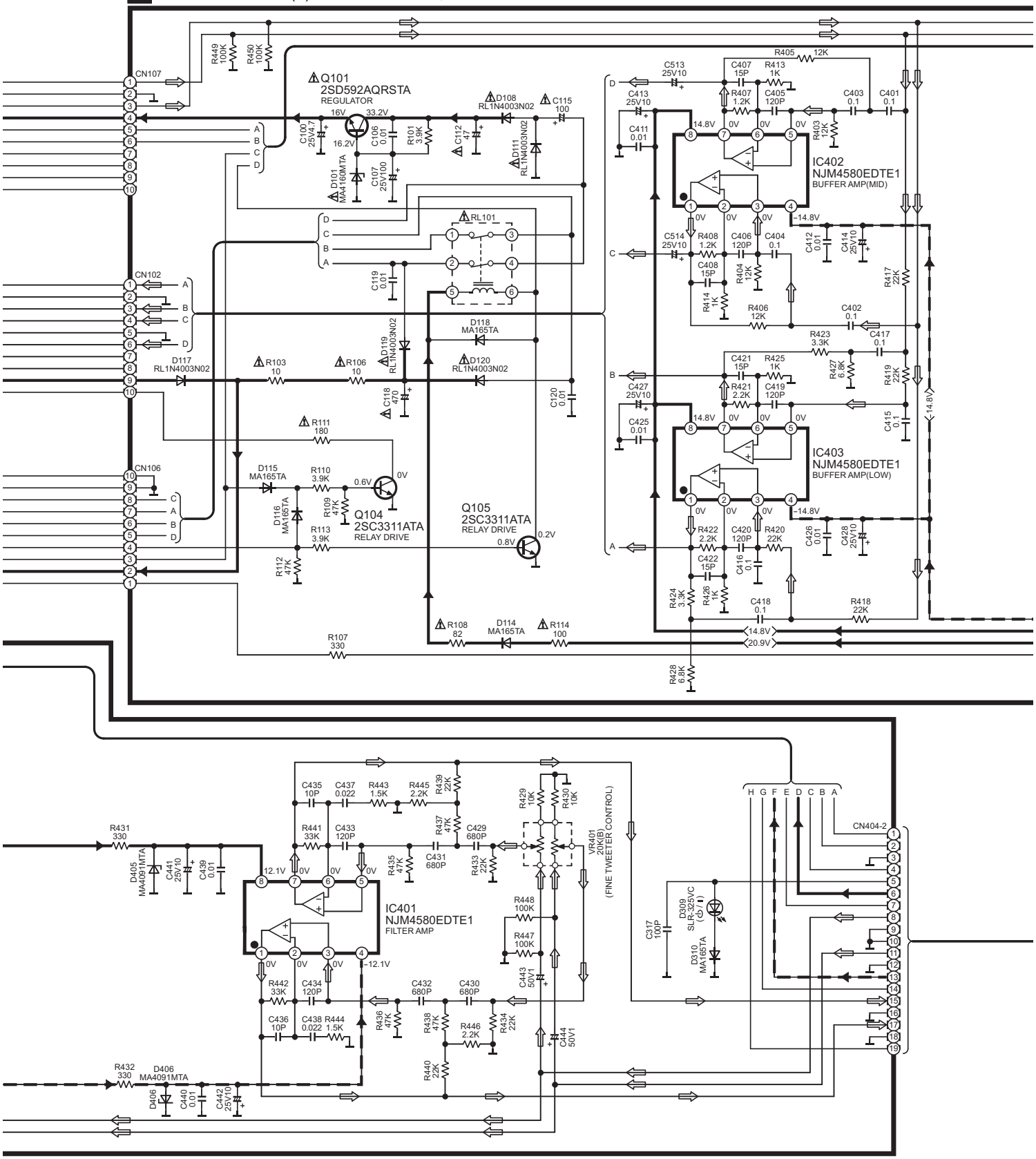
B OPERATION CIRCUIT



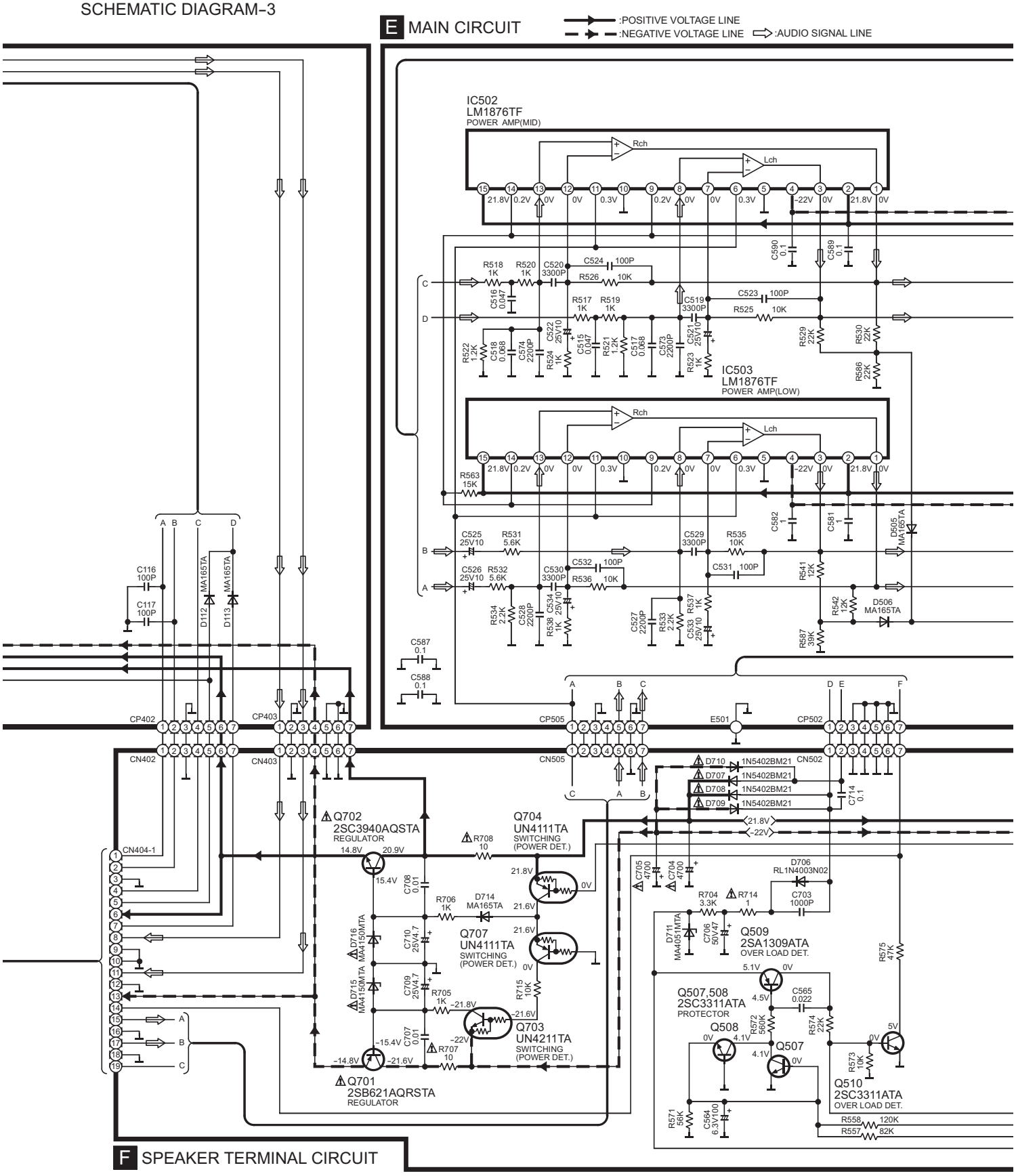
SCHEMATIC DIAGRAM–2

D POWER SUPPLY(2) CIRCUIT

:POSITIVE VOLTAGE LINE
:NEGATIVE VOLTAGE LINE
:AUDIO SIGNAL LINE

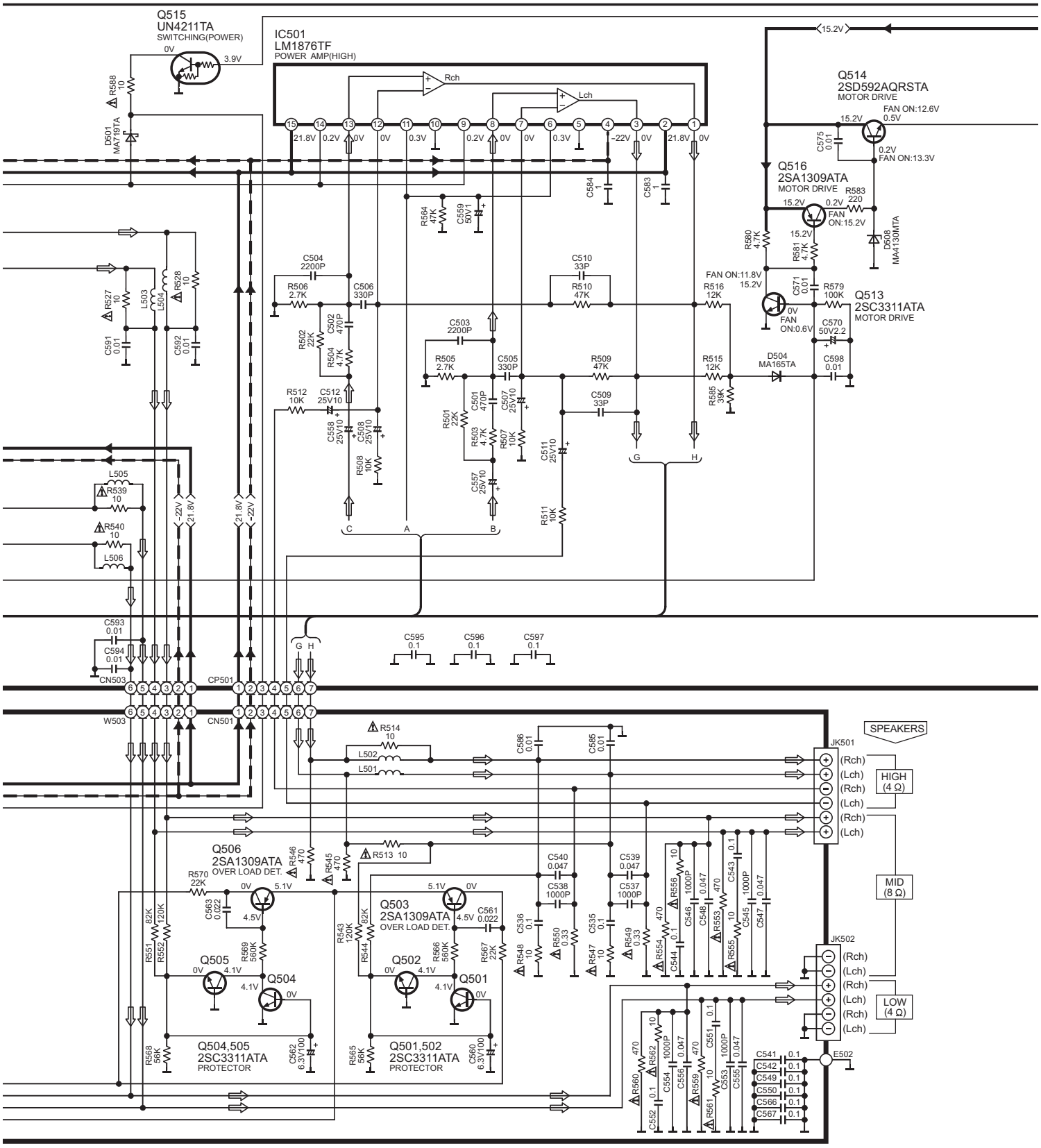


SCHEMATIC DIAGRAM–3



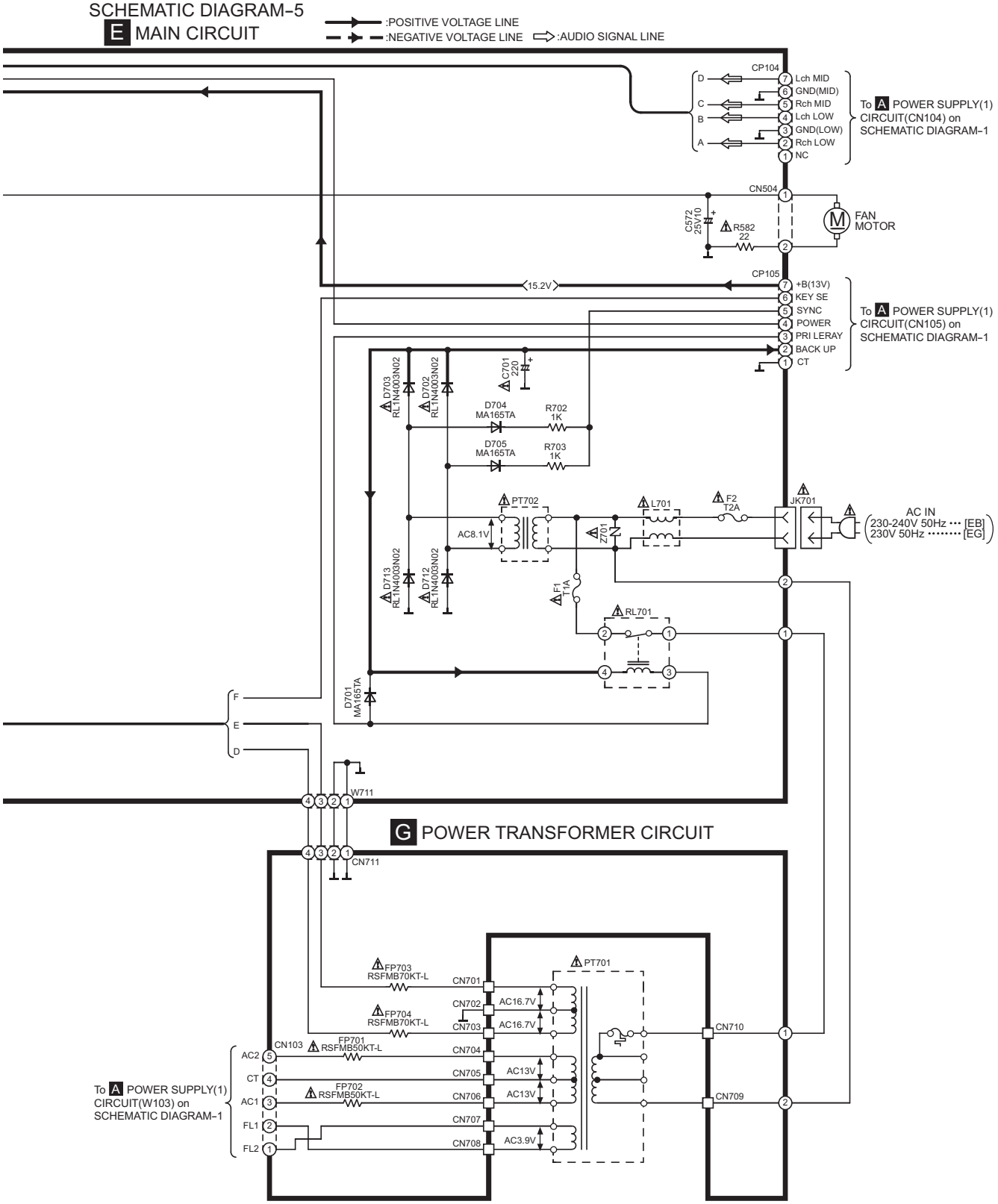
SCHEMATIC DIAGRAM–4

:POSITIVE VOLTAGE LINE
:NEGATIVE VOLTAGE LINE :AUDIO SIGNAL LINE

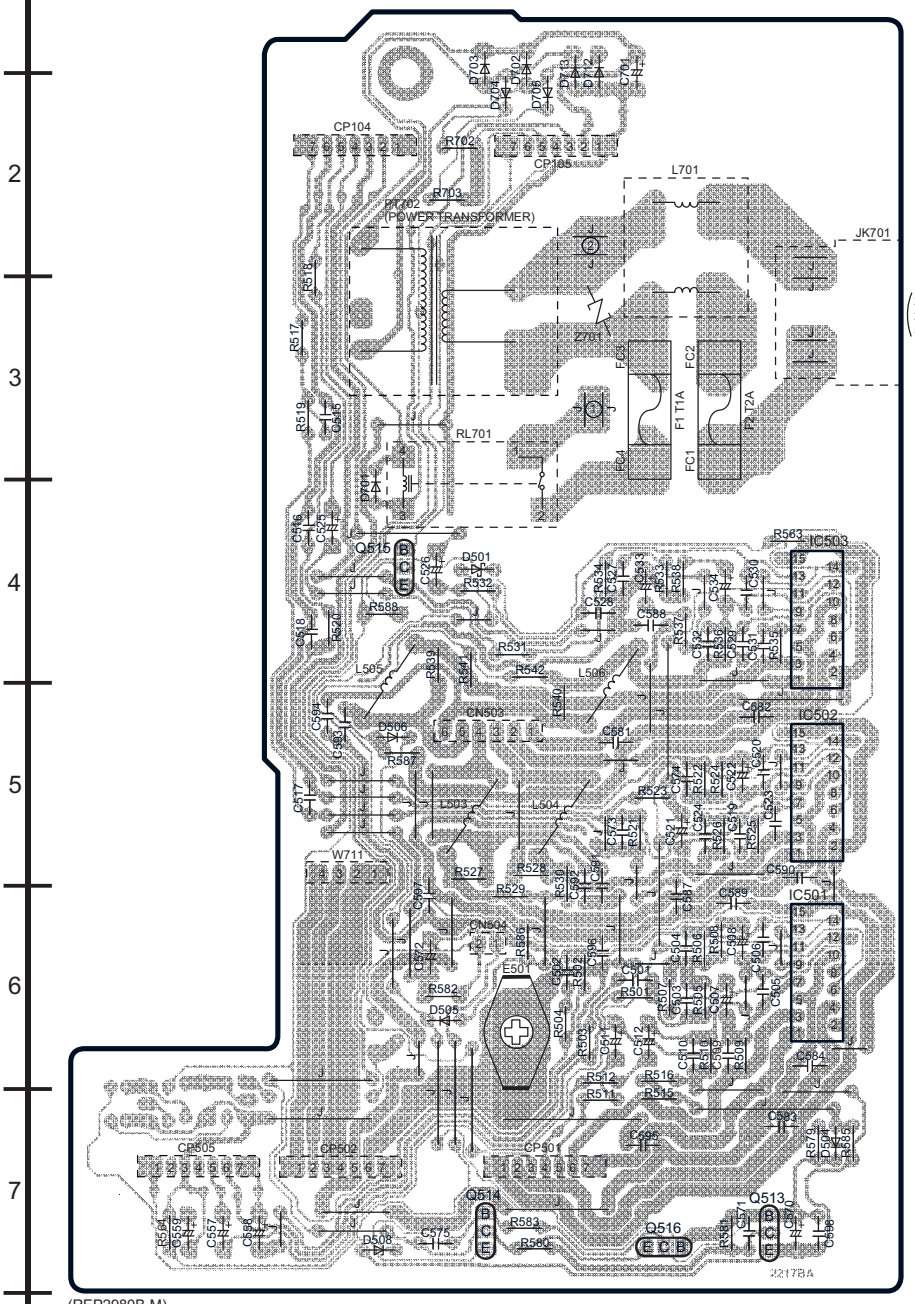


SCHEMATIC DIAGRAM–5

E MAIN CIRCUIT



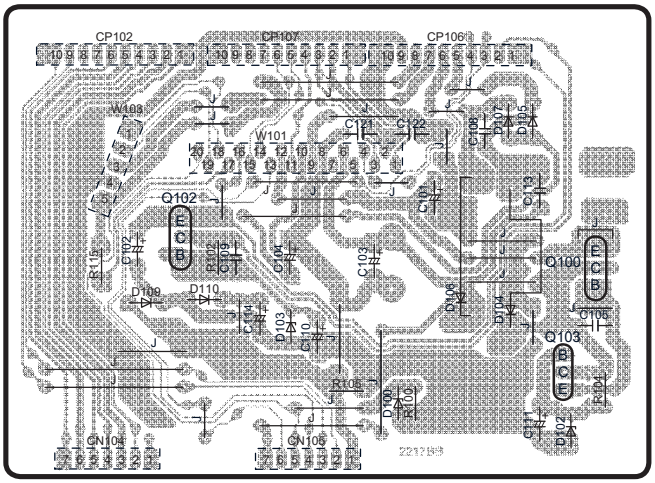
E MAIN P.C.B.



■ ELECTRICAL PARTS LOCATION

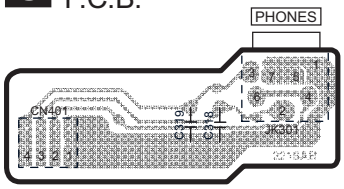
Ref. No.	Lo. No.	Ref. No.	Lo. No.
E MAIN P.C.B.			
IC501	6D	R537	4D
IC502	5D	R538	4D
IC503	4D	R539	4C
Q513	7D	R540	5C
Q514	7C	R541	4C
Q515	4B	R542	4C
Q516	7D	R563	4D
D501	4C	R564	7A
D504	7D	R579	7D
D505	6C	R580	7C
D506	5B	R581	7D
D508	7B	R582	6C
D701	4B	R583	7C
D702	1C	R585	7E
D703	1C	R586	6C
D704	2C	R587	5B
D705	2C	R588	4B
D712	1C	R702	2C
D713	1C	R703	2C
L503	5C	C501	6C
L504	5C	C502	6C
L505	4B	C503	6D
L506	4C	C504	6D
L701	2D	C505	6D
Z701	3C	C506	6D
F1	3D	C507	6D
F2	3D	C508	6D
RL701	3C	C509	6D
CN503	5C	C510	6D
CN504	6C	C511	6C
CP104	2B	C512	6D
CP105	2C	C515	3B
CP501	7C	C516	4B
CP502	7B	C517	5B
CP505	7A	C518	4B
JK701	2E	C519	5D
E501	6C	C520	5D
FC1	3D	C521	5D
FC2	3D	C522	5D
FC3	3D	C523	5D
FC4	3D	C524	5D
PT702	3C	C525	4B
W711	5B	C526	4C
R501	6C	C527	4C
R502	6C	C528	4C
R503	6C	C529	4D
R504	6C	C530	4D
R505	6D	C531	4D
R506	6D	C532	4D
R507	6D	C533	4D
R508	6D	C534	4D
R509	6D	C557	7A
R510	6D	C558	7B
R511	7C	C559	7A
R512	6C	C570	7D
R515	7D	C571	7D
R516	6D	C572	6B
R517	3B	C573	5C
R518	3B	C574	5D
R519	3B	C575	7C
R520	4B	C581	5C
R521	5D	C582	5D
R522	5D	C583	7D
R523	5D	C584	6D
R524	5D	C587	6D
R525	5D	C588	4D
R526	5D	C589	6D
R527	5C	C590	5D
R528	5C	C591	5C
R529	6C	C592	5C
R530	5C	C593	5B
R531	4C	C594	5B
R532	4C	C595	7D
R533	4D	C596	6C
R534	4C	C597	6B
R535	4D	C598	7D
R536	4D	C701	1C

A POWER SUPPLY (1) P.C.B.



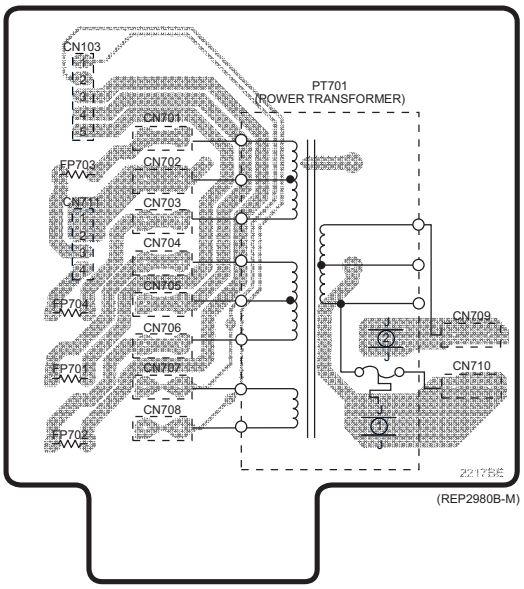
(REP2980B-M)

C HEADPHONE JACK P.C.B.



(REP2982A-S)

G POWER TRANSFORMER P.C.B.

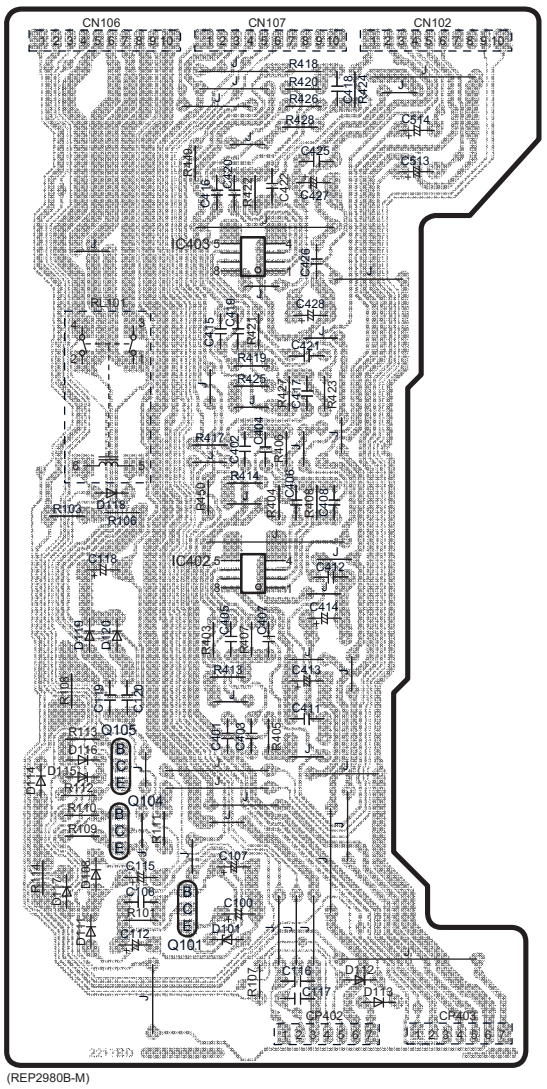


(REP2980B-M)

■ ELECTRICAL PARTS LOCATION

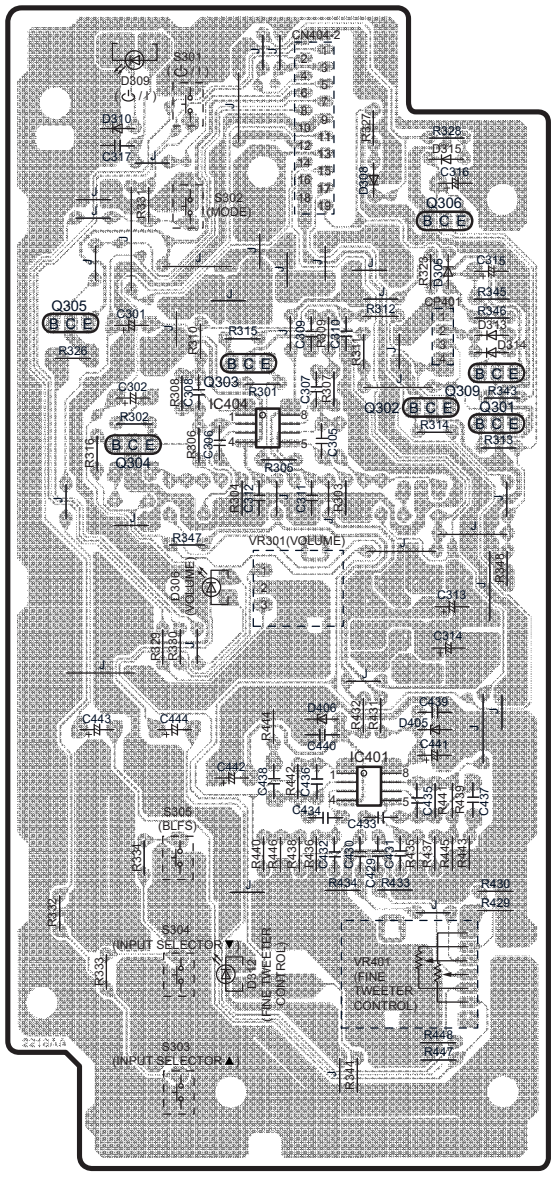
Ref. No.	Lo. No.	Ref. No.	Lo. No.
A POWER SUPPLY (1) P.C.B.			
Q100	3D	R100	3C
Q102	3B	R102	3B
Q103	3D	R104	3D
D100	3C	R105	3C
D102	4D	R115	3A
D103	3B	C101	2C
D104	3C	C102	3B
D105	2D	C103	3C
D106	3C	C104	3B
D107	2C	C105	3D
D109	3B	C108	2C
D110	3B	C109	3B
CN104	4A	C110	3C
CN105	4B	C111	4D
CP102	2B	C113	2D
CP106	2C	C114	3B
CP107	2B	C121	2C
W101	2B	C122	2C
W103	2B		
C HEADPHONE JACK P.C.B.			
CN401	2E	C318	2F
JK301	2F	C319	2E
G POWER TRANSFORMER P.C.B.			
PT701	6C	CN708	7B
CN103	6A	CN709	7C
CN701	6B	CN710	7C
CN702	6B	CN711	6A
CN703	6B	FP701	7A
CN704	7B	FP702	7A
CN705	7B	FP703	6A
CN706	7B	FP704	7A
CN707	7B		

D POWER SUPPLY (2) P.C.B.



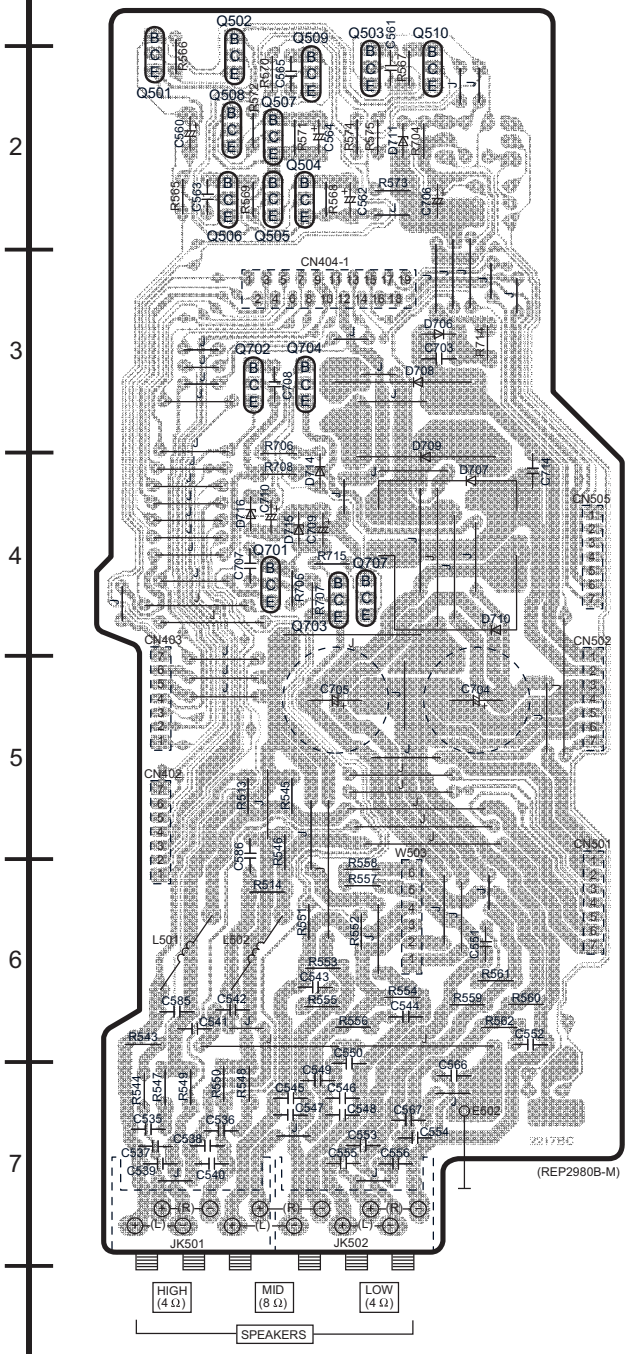
(REP2980B-M)

B OPERATION P.C.B.



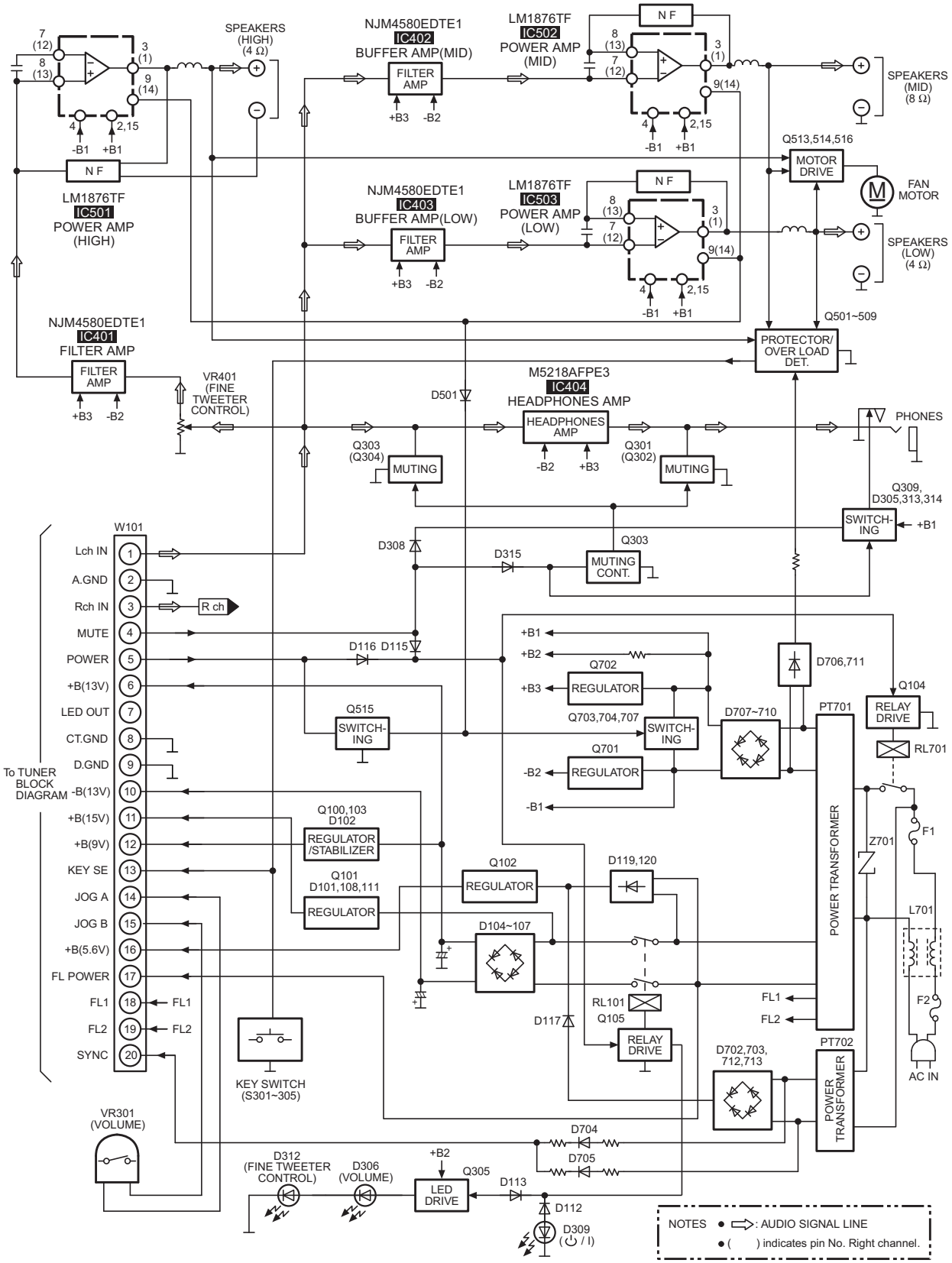
(REP2982A-S)

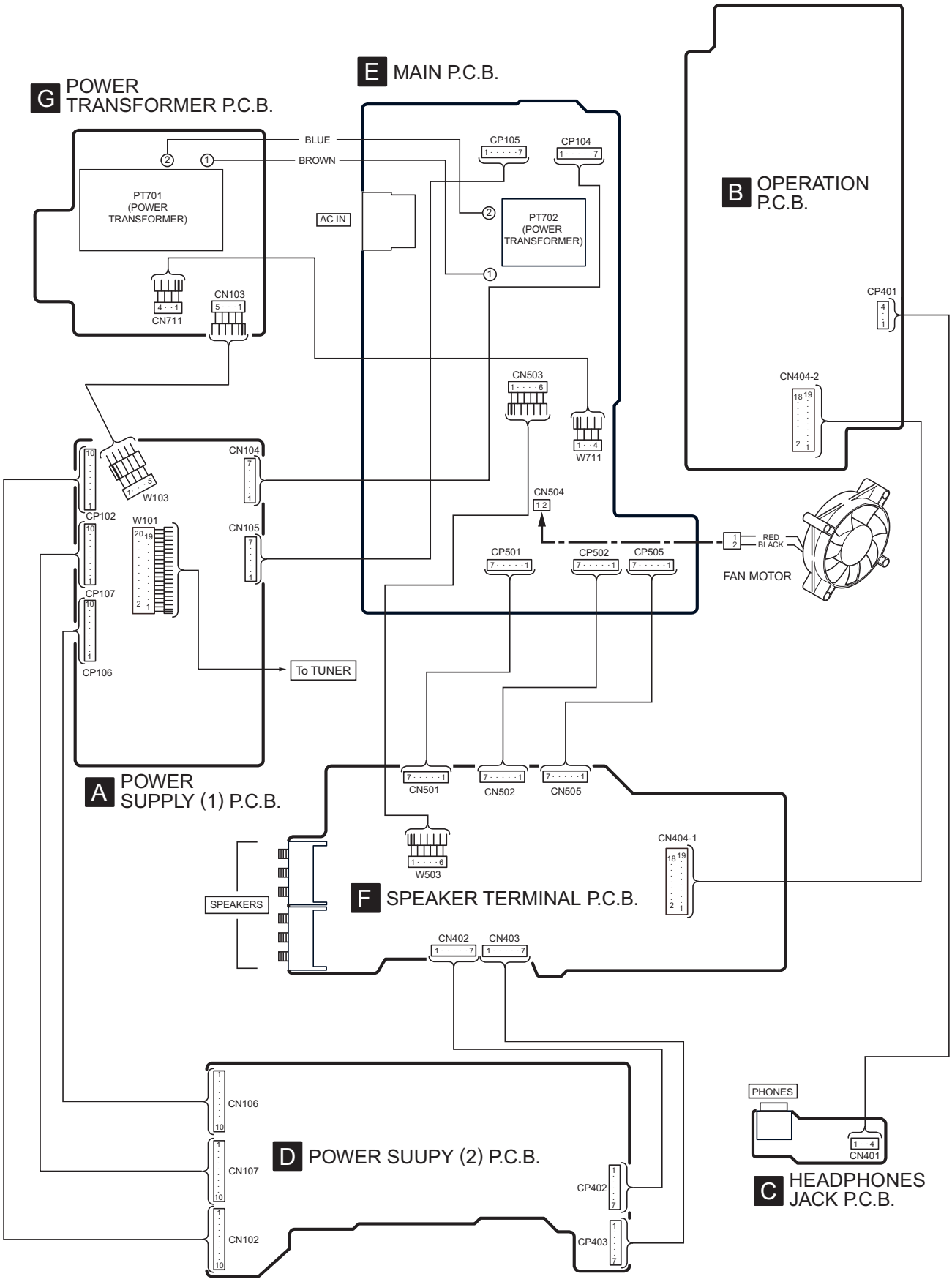
F SPEAKER TERMINAL P.C.B.



■ELECTRICAL PARTS LOCATION

Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
D POWER SUPPLY (2) P.C.B.							
IC402	4B	R103	4A	R422	2B	C404	3B
IC403	2B	R106	4A	R423	3B	C405	4B
Q101	6B	R107	6B	R424	1C	C406	3B
Q104	5A	R108	4A	R425	3B	C407	4B
Q105	5A	R109	5A	R426	2B	C408	3B
D101	6B	R110	5A	R427	3B	C411	5B
D108	5A	R111	5B	R428	2B	C412	4B
D111	6A	R112	5A	R449	2B	C413	4B
D112	6C	R113	5A	R450	3B	C414	4B
D113	6C	R114	6A	RL101	3A	C415	3B
D114	5A	R403	4B	C100	6B	C416	2B
D115	5A	R404	3B	C106	5A	C417	3B
D116	5A	R405	5B	C107	5B	C418	1B
D117	5A	R406	3B	C112	6A	C419	3B
D118	3A	R407	4B	C115	5A	C420	2B
D119	4A	R408	3B	C116	6B	C421	3B
D120	4A	R413	4B	C117	6B	C422	2B
CN102	1C	R414	3B	C118	4A	C425	2B
CN106	1A	R417	3B	C119	4A	C426	2B
CN107	1B	R418	1B	C120	4A	C427	2B
CP402	6B	R419	3B	C401	5B	C428	3B
CP403	6C	R420	1B	C402	3B	C513	2C
R101	6A	R421	3B	C403	5B	C514	2C
B OPERATION P.C.B.							
IC401	5E	CP401	3F	R344	6E	C306	3E
IC404	3E	R301	3E	R345	2F	C307	3E
Q301	3F	R302	3D	R346	3F	C308	3E
Q302	3F	R303	3E	R347	4E	C309	3E
Q303	3E	R304	3E	R348	4F	C310	3E
Q304	3D	R305	3E	R429	5F	C311	3E
Q305	3D	R306	3E	R430	5F	C312	3E
Q306	2F	R307	3E	R431	5E	C313	4F
Q309	3F	R308	3D	R432	5E	C314	4F
D305	2F	R309	3E	R433	5F	C315	2F
D306	4E	R310	3E	R434	5E	C316	2F
D308	2E	R311	3E	R435	5F	C317	2D
D309	1D	R312	3E	R436	5E	C429	5E
D310	2D	R313	3F	R437	5F	C430	5E
D312	6E	R314	3F	R438	5E	C431	5F
D313	3F	R315	3E	R439	5F	C432	5E
D314	3F	R316	3D	R440	5E	C433	5E
D315	2F	R323	2F	R441	5F	C434	5E
D405	5F	R326	3D	R442	5E	C435	5F
D406	5E	R327	2E	R443	5F	C436	5E
VR301	4E	R328	2F	R444	5E	C437	5F
VR401	6F	R329	4D	R445	5F	C438	5E
S301	2E	R330	4D	R446	5E	C439	5F
S302	2E	R331	2D	R447	6F	C440	5E
S303	6D	R332	6D	R448	6F	C441	5F
S304	6D	R333	6D	C301	3D	C442	5E
S305	5D	R334	5D	C302	3D	C443	5D
CN404-2	2E	R343	3F	C305	3E	C444	5D
F SPEAKER TERMINAL P.C.B.							
Q501	2A	CN502	5C	R567	2B	C549	7B
Q502	2B	CN505	4C	R568	2B	C550	7B
Q503	2B	JK501	7A	R569	2B	C551	6C
Q504	2B	JK502	7B	R570	2B	C552	6C
Q505	2B	E502	7C	R571	2B	C553	7B
Q506	2A	W503	6B	R572	2B	C554	7B
Q507	2B	R513	5B	R573	2B	C555	7B
Q508	2A	R514	6B	R574	2B	C556	7B
Q509	2B	R543	6A	R575	2B	C560	2A
Q510	2B	R544	7A	R704	2B	C561	2B
Q701	4B	R545	5B	R705	4B	C562	2B
Q702	3B	R546	5B	R706	3B	C563	2A
Q703	4B	R547	7A	R707	4B	C564	2B
Q704	3B	R548	7B	R708	4B	C565	2B
Q707	4B	R549	7A	R714	3C	C566	7C
D706	3C	R550	7A	R715	4B	C567	7B
D707	4C	R551	6B	C535	7A	C585	6A
D708	3B	R552	6B	C536	7A	C586	5B
D709	4B	R553	6B	C537	7A	C703	3C
D710	4C	R554	6B	C538	7A	C704	5C
D711	2B	R555	6B	C539	7A	C705	5B
D714	4B	R556	6B	C540	7A	C706	2B
D715	4B	R557	6B	C541	6A	C707	4B
D716	4B	R558	6B	C542	6B	C708	3B
L501	6A	R559	6C	C543	6B	C709	4B
L502	6B	R560	6C	C544	6B	C710	4B
CN402	5A	R561	6C	C545	7B	C714	4C
CN403	5A	R562	6C	C546	7B		
CN404-1	3B	R565	2A	C547	7B		
CN501	6C	R566	2A	C548	7B		


SPEAKERS (HIGH) (4 Ω)
NJM4580EDTE1 IC402 BUFFER AMP(MID)
FILTER AMP
LM1876TF IC502 POWER AMP (MID)
N F
SPEAKERS (MID) (8 Ω)
LM1876TF IC501 POWER AMP (HIGH)
NJM4580EDTE1 IC403 BUFFER AMP(LOW)
LM1876TF IC503 POWER AMP (LOW)
SPEAKERS (LOW) (4 Ω)
Q513,514,516
MOTOR DRIVE
FAN MOTOR
Q501~509
PROTECTOR/ OVER LOAD DET.
NJM4580EDTE1 IC401 FILTER AMP
VR401 (FINE TWEETER CONTROL)
M5218AFPE3 IC404 HEADPHONES AMP
HEADPHONES AMP
PHONES
MUTING
Q303 (Q304)
Q301 (Q302)
Q309, D305,313,314
SWITCH-ING
+B1
W101
Lch IN
A.GND
Rch IN
R ch
MUTE
POWER
+B(13V)
LED OUT
CT.GND
D.GND
-B(13V)
+B(15V)
+B(9V)
KEY SE
JOG A
JOG B
+B(5.6V)
FL POWER
FL1
FL2
SYNC
To TUNER BLOCK DIAGRAM
D308
D315
MUTING CONT.
Q303
D116 D115
Q515
Q702
REGULATOR
Q703,704,707
Q701
D706,711
Q104
RELAY DRIVE
RL701
D707~710
PT701
POWER TRANSFORMER
Z701
F1
L701
F2
AC IN
Q100,103 D102
REGULATOR /STABILIZER
Q101 D101,108,111
Q102
D119,120
D104~107
RL101 Q105
D117
FL1
FL2
PT702
D702,703, 712,713
KEY SWITCH (S301~305)
VR301 (VOLUME)
D704
D705
D312 (FINE TWEETER CONTROL)
D306 (VOLUME)
Q305
LED DRIVE
D113
D112
D309 (⏻ / I)
NOTES
: AUDIO SIGNAL LINE
( ) indicates pin No. Right channel.


G POWER TRANSFORMER P.C.B.
E MAIN P.C.B.
B OPERATION P.C.B.
BLUE
BROWN
PT701 (POWER TRANSFORMER)
AC IN
PT702 (POWER TRANSFORMER)
CP105
CP104
CN711
CN103
CP401
CN404-2
CN503
W711
CN104
W103
CN504
CP102
W101
CN105
CP501
CP502
CP505
RED
BLACK
FAN MOTOR
CP107
CP106
To TUNER
A POWER SUPPLY (1) P.C.B.
CN501
CN502
CN505
W503
CN404-1
SPEAKERS
F SPEAKER TERMINAL P.C.B.
CN402
CN403
CN106
CN107
CN102
D POWER SUUPY (2) P.C.B.
CP402
CP403
PHONES
CN401
C HEADPHONES JACK P.C.B.

etc. are used.
When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

Caution!

- Secondary trouble can be prevented by taking care during repair.
- IC and LSI are sensitive to static electricity.
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.
- Voltage and signal lines

: Positive voltage line

: Negative voltage line

: Source signal line

9. Schematic Diagram

10. Printed Circuit Board Diagram

11. Block Diagram

12. Wiring Connection Diagram

13. Replacement Parts List

Notes:

*** Important safety notice:**
Components identified by ⚠ mark have special characteristics important for safety. / Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. / Whenreplacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
*** The parenthesized indications in the Remarks columns specify the areas. / Parts without these indications can be used for all areas.**
*** Remote Control Ass'y: Supply period for three years from terminal of production.**
*** Capacity values are in microfarads (uF) unless specified**

otherwise, P=Pico-farads(pF), F=Farads (F)
*** Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM), 1M=1,000K (OHM)**
*** "<IA>, <IB>, <IC>, <ID>" marks in Remarks indicate languages of instruction manuals.**
[<IA> : English, <IB> : German/Italian/French, <IC> : Spanish/ Swedish/Polish, <ID> : Netherlands / Danish]
***The markings (RTL) indicate that the Retention Time is limited for these items. After the discontinuation of these assemblies in production, the items will continue to be available for a specific period of time. The retention period of availabilityis dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	RHD30007-S	SCREW	4	
2	RKM0412B-N	CABINET	1	
3	XTBS3+10JFZ1	SCREW	1	
4	RMZ0339	ZNR COVER	1	
5	XTB3+8JFZ	SCREW	3	
6	REM0085	FAN UNIT	1	
7	RKA0114-K	FOOT	4	
7-1	RKA0083-K	CUSHION	4	
8	XTB3+5JFZ	SCREW	4	
9	REE0994	FFC(19P)	1	
10	RGG0173C-N	FRONT PANEL	1	
11	RGL0480-Q	STANDBY INDICATOR	1	
12	RGL0483-Q	FINE TWEETER INDICATOR	1	
13	RGL0494-Q	VOLUME INDICATOR	1	
14	RGP0774B-N	SUB PANEL	1	
15	RGU1856-N	BUTTON,BLFS/SELECTOR	1	
16	RGW0336-N	VOLUME KNOB	1	
17	RGW0337-N	FINE TWEETER CONT.KNOB	1	
18	RHD26016	SCREW	1	
19	RHN90001	NUT	2	
20	XTBS26+8J	SCREW	7	
21	SHR9806	SPACER	1	
22	XTBS3+8JFZ1	SCREW	8	
23	XTB3+12FFZ	SCREW	1	
24	XTB3+20JFZ	SCREW	4	
25	XTB3+6JFZ	SCREW	4	
26	XTW3+8T	SCREW	1	
27	XTW3+15T	SCREW	3	
28	RGN1903B-K	NAME PLATE	1	(EB)
28	RGN1903A-K	NAME PLATE	1	(EG)
29	REX0962	FLAT CABLE(20P)(W101)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A1	RAK-HDA37WH	REMOTE CONT.TRANSMITTER	1	
A1-1	RKK0123-K1	BATT.COVER(REMOTE CONT.)	1	
A2	RSA0022-L	AM LOOP ANTENNA SET	1	
A3	REE0993	SPEAKER CORDS	2	
A4	RJA0053-2X	AC POWER SUPPLY CORD	1	(EB) ⚠
A4	RJA0019-1X	AC POWER SUPPLY CORD	1	(EG) ⚠
A5	RJL1P019B15	VIDEO CONNECTION CABLE	1	K2JA2A000018
A6	RQCB0169	SERVICE CENTER LIST	1	
A7	RQT5479-B	INSTRUCTION MANUAL	1	<IA>
A7	RQT5476-D	INSTRUCTION MANUAL	1	(EG)<IB>
A7	RQT5477-E	INSTRUCTION MANUAL	1	(EG)<IC>
A7	RQT5478-H	INSTRUCTION MANUAL	1	(EG)<ID>
A8	RQA0117	WARRANTY CARD	1	
A9	RSA0007	FM INDOOR ANTENNA	1	
A10	SJP9009	ANTENNA PLUG ADAPTOR	1	(EB) ⚠
A11	RQCA0751	QUICK SET-UP GUIDE	1	(EB)
C100	ECA1EAK4R7XB	25V 4.7U	1	
C101	ECA1EAK100XB	25V 10U	1	
C102	RCE1AKA470BG	10V 47U	1	F2A1A470A011
C103	ECA1EM222	2200U	1	⚠
C104	RCE1EM471BV	470U	1	⚠
C105,06	ECBT1H103KB5	50V 0.01U	2	
C107	ECA1EM101	25V 100U	1	
C108	ECKR1H103ZF5	50V 0.01U	1	F1B1H1030001
C109	ECBT1H103KB5	50V 0.01U	1	
C110	RCE1AKA470BG	10V 47U	1	F2A1A470A011
C111	ECA1EAK100XB	25V 10U	1	
C112	ECA1HM470	47U	1	⚠
C113	ECKR1H103ZF5	50V 0.01U	1	F1B1H1030001
C114	ECA1EAK4R7XB	25V 4.7U	1	
C115	ECA1EM101	100U	1	⚠
C116,17	ECBT1H101KB5	50V 100P	2	F1D1H101A012
C118	RCE1EM471BV	470U	1	⚠
C119,20	ECBT1H103KB5	50V 0.01U	2	
C121,22	ECBT1H104KB5	50V 0.1U	2	
C301,02	ECA1HAK010XI	50V 1U	2	
C305-08	ECBT1H101KB5	50V 100P	4	F1D1H101A012
C309-12	ECBT1H103KB5	50V 0.01U	4	
C313,14	ECA1EAK4R7XB	25V 4.7U	2	
C315	F2A0J221A143	6.3V 220U	1	
C316	ECEA0JKS101	6.3V 100U	1	
C317	ECBT1H101KB5	50V 100P	1	F1D1H101A012
C318,19	ECBT1H473ZF5	50V 0.047U	2	
C401-04	ECBT1H104KB5	50V 0.1U	4	
C405,06	ECBT1H121KB5	50V 120P	2	
C407,08	ECBT1H150JC5	50V 15P	2	
C411,12	ECBT1H103KB5	50V 0.01U	2	
C413,14	ECA1EAK100XB	25V 10U	2	
C415-18	ECBT1H104KB5	50V 0.1U	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C419,20	ECBT1H121KB5	50V 120P	2	
C421,22	ECBT1H150JC5	50V 15P	2	
C425,26	ECBT1H103KB5	50V 0.01U	2	
C427,28	ECA1EAK100XB	25V 10U	2	
C429-32	ECBA1H681KB5	50V 680P	4	F1D1H681A014
C433,34	ECBT1H121KB5	50V 120P	2	
C435,36	ECBT1H100JC5	50V 10P	2	F1D1H100A015
C437,38	ECQB1H223JF3	50V 0.022U	2	
C439,40	ECBT1H103KB5	50V 0.01U	2	
C441,42	ECA1EAK100XB	25V 10U	2	
C443,44	ECA1HAK010XI	50V 1U	2	
C501,02	ECBT1H471KB5	50V 470P	2	F1D1H471A012
C503,04	ECBT1C222KR5	16V 2200P	2	
C505,06	ECBT1H331KB5	50V 330P	2	F1D1H331A012
C507,08	ECA1EAK100XB	25V 10U	2	
C509,10	ECBT1H330J5	50V 33P	2	F1D1H330A006
C511-14	ECA1EAK100XB	25V 10U	4	
C515,16	ECBT1H473KB5	50V 0.047U	2	
C517,18	ECBT1H683KB5	50V 0.068U	2	F1D1H683A012
C519,20	ECBT1C332KR5	16V 3300P	2	
C521,22	ECA1EAK100XB	25V 10U	2	
C523,24	ECBT1H101KB5	50V 100P	2	F1D1H101A012
C525,26	ECA1EAK100XB	25V 10U	2	
C527,28	ECBT1C222KR5	16V 2200P	2	
C529,30	ECBT1C332KR5	16V 3300P	2	
C531,32	ECBT1H101KB5	50V 100P	2	F1D1H101A012
C533,34	ECA1EAK100XB	25V 10U	2	
C535,36	ECBT1H104KB5	50V 0.1U	2	
C537,38	ECBT1H102KB5	50V 1000P	2	F1D1H102A012
C539,40	ECBT1H473ZF5	50V 0.047U	2	
C541-44	ECBT1H104KB5	50V 0.1U	4	
C545,46	ECBT1H102KB5	50V 1000P	2	F1D1H102A012
C547,48	ECBT1H473ZF5	50V 0.047U	2	
C549-52	ECBT1H104KB5	50V 0.1U	4	
C553,54	ECBT1H102KB5	50V 1000P	2	F1D1H102A012
C555,56	ECBT1H473ZF5	50V 0.047U	2	
C557,58	ECA1EAK100XB	25V 10U	2	
C559	ECA1HAK010XI	50V 1U	1	
C560	ECEA0JKS101	6.3V 100U	1	
C561	ECBT1E223ZF	25V 0.022U	1	
C562	ECEA0JKS101	6.3V 100U	1	
C563	ECBT1E223ZF	25V 0.022U	1	
C564	ECEA0JKS101	6.3V 100U	1	
C565	ECBT1E223ZF	25V 0.022U	1	
C566,67	ECBT1H104KB5	50V 0.1U	2	
C570	ECEA1HKS2R2	50V 2.2U	1	
C571	ECBT1H103KB5	50V 0.01U	1	
C572	ECA1EAK100XB	25V 10U	1	
C573,74	ECBT1C222KR5	16V 2200P	2	
C575	ECBT1H103KB5	50V 0.01U	1	
C581-84	ECBT1H105ZF5	50V 1U	4	F1E1H105A001
C585,86	ECBT1H103KB5	50V 0.01U	2	
C587-90	ECBT1H104KB5	50V 0.1U	4	
C591-94	ECBT1H103KB5	50V 0.01U	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C595-97	ECBT1H104KB5	50V 0.1U	3	
C598	ECBT1H103KB5	50V 0.01U	1	
C701	ECA1CM221	220U	1	⚠
C703	ECKR2H102ZF5	500V 1000P	1	
C704,05	EEUPL27472E	4700U	2	⚠
C706	ECA1HM470	50V 47U	1	
C707,08	ECBT1H103KB5	50V 0.01U	2	
C709,10	ECA1EAK4R7XB	25V 4.7U	2	
C714	ECQE1104KF3	100V 0.1U	1	
CN102	RJU122K10	CONNECTOR(10P)	1	
CN103	RJS5T6ZA	CONNECTOR(5P)	1	
CN104,05	RJU100W07	CONNECTOR(7P)	2	K1KB07A00018
CN106,07	RJU122K10	CONNECTOR(10P)	2	
CN401	RJU057W004	CONNECTOR(4P)	1	K1KB04A00037
CN402,03	RJU100W07	CONNECTOR(7P)	2	K1KB07A00018
CN404-1	RJS1A6219-1	CONNECTOR(19P)	1	K1MN19C00001
CN404-2	RJS1A6219-1	CONNECTOR(19P)	1	K1MN19C00001
CN501,02	RJU100W07	CONNECTOR(7P)	2	K1KB07A00018
CN503	RJS1A6606T1	CONNECTOR(6P)	1	K1MP06A00009
CN504	SJT3213	CONNECTOR(2P)	1	K1KA02A00008
CN505	RJU100W07	CONNECTOR(7P)	1	K1KB07A00018
CN701-10	RJS1A1101T1	CONNECTOR(1P)	10	
CN711	RJS4T6ZA	CONNECTOR(4P)	1	K1MP04B00006
CP102	RJT122K10	CONNECTOR(10P)	1	
CP104,05	RJT100W07	CONNECTOR(7P)	2	K1KA07A00082
CP106,07	RJT122K10	CONNECTOR(10P)	2	
CP401	RJT057W004-1	CONNECTOR(4P)	1	K1KA04A00205
CP402,03	RJT100W07	CONNECTOR(7P)	2	K1KA07A00082
CP501,02	RJT100W07	CONNECTOR(7P)	2	K1KA07A00082
CP505	RJT100W07	CONNECTOR(7P)	1	K1KA07A00082
D100	MA4051M	DIODE	1	MAZ40510M
D101	MA4160M	DIODE	1	MAZ41600M ⚠
D102	MA4110M	DIODE	1	MAZ41100M ⚠
D103	MA4062M	DIODE	1	MAZ40620M ⚠
D104	1N5402BF	DIODE	1	⚠
D105	RL1N4003N02	DIODE	1	⚠
D106	1N5402BF	DIODE	1	⚠
D107,08	RL1N4003N02	DIODE	2	⚠
D109,10	RL1N4003N02	DIODE	2	
D111	RL1N4003N02	DIODE	1	⚠
D112-16	MA165	DIODE	5	MA2C165
D117	RL1N4003N02	DIODE	1	
D118	MA165	DIODE	1	MA2C165
D119,20	RL1N4003N02	DIODE	2	⚠
D305	MA165	DIODE	1	MA2C165
D306	LNH0A8CYB0A1	LED	1	
D308	MA165	DIODE	1	MA2C165
D309	SLR-325VC	LED	1	B3AAA0000487

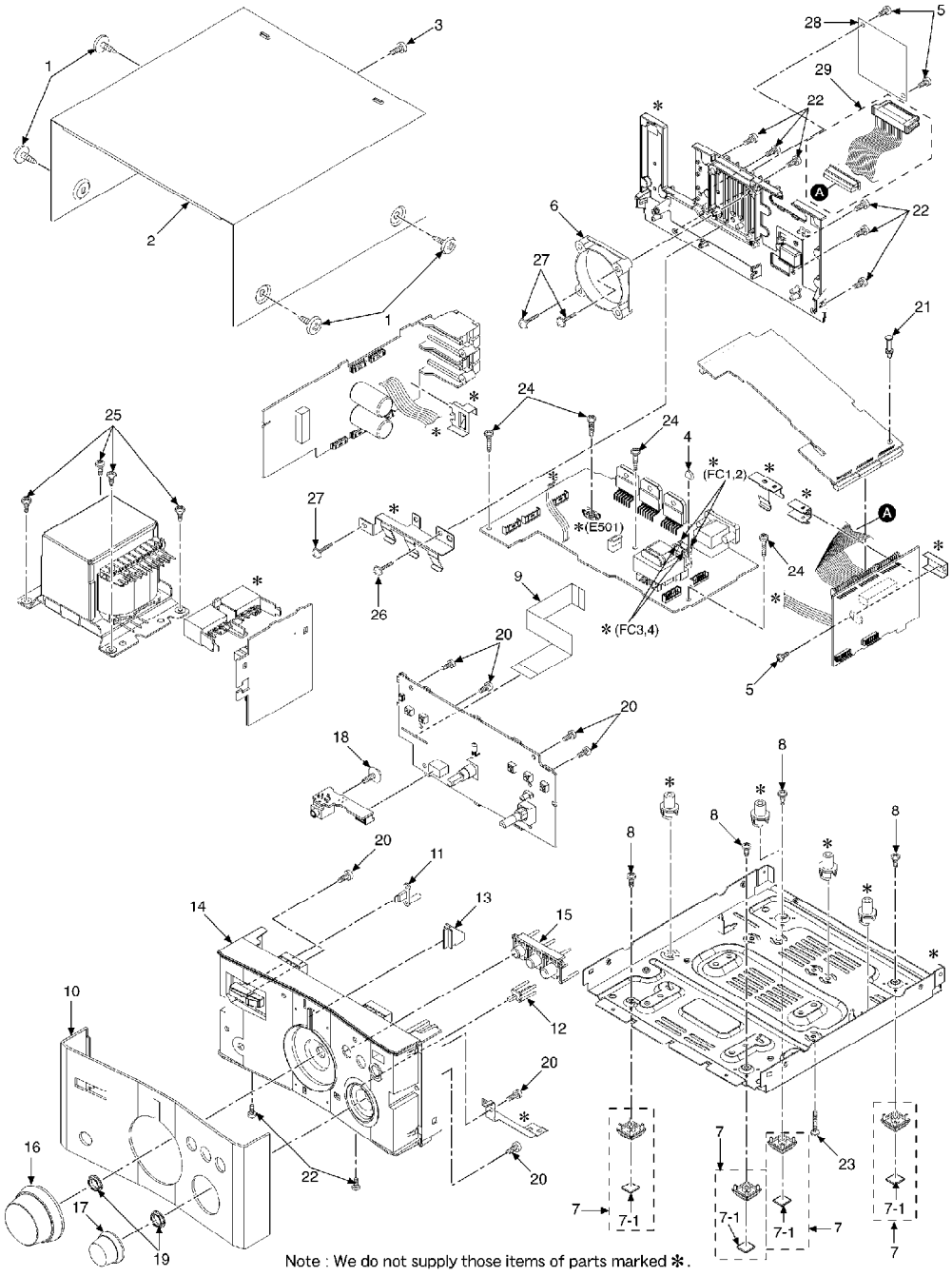
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D310	MA165	DIODE	1	MA2C165
D312	LNW0A8CYBZ	LED	1	
D313-15	MA165	DIODE	3	MA2C165
D405,06	MA4091M	DIODE	2	MAZ40910M
D501	MA719TA	DIODE	1	MA2C71900A
D504-06	MA165	DIODE	3	MA2C165
D508	MA4130M	DIODE	1	MAZ41300M
D701	MA165	DIODE	1	MA2C165
D702,03	RL1N4003N02	DIODE	2	⚠
D704,05	MA165	DIODE	2	MA2C165
D706	RL1N4003N02	DIODE	1	
D707-10	1N5402BF	DIODE	4	⚠
D711	MA4051M	DIODE	1	MAZ40510M
D712,13	RL1N4003N02	DIODE	2	⚠
D714	MA165	DIODE	1	MA2C165
D715,16	MA4150M	DIODE	2	MAZ41500M ⚠
F1	XBA2C10TB0	FUSE,T1A	1	K5D102BL0001 ⚠
F2	XBA2C20TB0	FUSE,T2A	1	K5D202BL0001 ⚠
FP701,02	RSFMB50KT-L	FUSE PROTECTOR	2	K5G502A00022 ⚠
FP703,04	RSFMB70KT-L	FUSE PROTECTOR	2	⚠
IC401-03	NJM4580EDTE1	IC	3	C0ABBB000125
IC404	M5218AFPE3	IC	1	C0ABBB000163
IC501-03	LM1876TF	IC	3	C1BA00000212
JK301	RJJ37TN01-2C	JACK,HEADPHONES	1	K2HC103B0106
JK501	RJH5603-2J	JACK,SPEAKERS	1	K4BC06B00006
JK502	RJH5603-3J	JACK,SPEAKERS	1	K4BC06B00007
JK701	SJS9236-1	JACK,AC IN	1	K2AA2B000002 ⚠
L501-06	RLQYR73MW1-0	COIL	6	G0ZZ00001606
L701	RLQZ371	COIL	1	ELF15N035AN ⚠
P1	RPG4717	PACKING CASE(AMPLIFIER)	1	
P2	RPN1265	CUSHION(AMPLIFIER)	1	
P3	SPP740-1	PROTECTION BAG(AMPLIFIER)	1	
P4	RPG4912	PACKING CASE(SYSTEM)	1	(EB)
P4	RPG4911	PACKING CASE(SYSTEM)	1	(EG)
P5	RPQ1030	PAD	1	
P6	RPQ1064	SPACER A	1	
P7	RPQ1065	SPACER B	1	
P8	RPF0139	PROTECTION BAG(F.B.)	1	
PCB1	REP2980B-M	MOTHER P.C.B.	1	(RTL)
PCB2	REP2982A-S	PANEL P.C.B.	1	(RTL)
PT701	RTP1V5B011-W	POWER TRANSFORMER	1	(EB) ⚠
PT701	RTP1V5E009-W	POWER TRANSFORMER	1	(EG) ⚠
PT702	RTP1H3E001	POWER TRANSFORMER	1	⚠
Q100	2SD2374PQAU	TRANSISTOR	1	2SD23740J1AU ⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q101	2SD592AR	TRANSISTOR	1	2SD0592AR ⚠
Q102	2SD2374PQAU	TRANSISTOR	1	2SD23740J1AU ⚠
Q103	2SD2144STA	TRANSISTOR	1	B1AAGC000006
Q104,05	2SC3311ATA	TRANSISTOR	2	2SC3311A0A
Q301	2SD2144STA	TRANSISTOR	1	B1AAGC000006
Q302-04	2SC3327A	TRANSISTOR	3	
Q305	UN4111	TRANSISTOR	1	UNR4111
Q306	UN4115	TRANSISTOR	1	UNR4115
Q309	UN4111	TRANSISTOR	1	UNR4111
Q501,02	2SC3311ATA	TRANSISTOR	2	2SC3311A0A
Q503	2SA1309ATA	TRANSISTOR	1	2SA1309AWA
Q504,05	2SC3311ATA	TRANSISTOR	2	2SC3311A0A
Q506	2SA1309ATA	TRANSISTOR	1	2SA1309AWA
Q507,08	2SC3311ATA	TRANSISTOR	2	2SC3311A0A
Q509	2SA1309ATA	TRANSISTOR	1	2SA1309AWA
Q510	2SC3311ATA	TRANSISTOR	1	2SC3311A0A
Q513	2SC3311ATA	TRANSISTOR	1	2SC3311A0A
Q514	2SD592AR	TRANSISTOR	1	2SD0592AR
Q515	UN4211	TRANSISTOR	1	UNR4211
Q516	2SA1309ATA	TRANSISTOR	1	2SA1309AWA
Q701	2SB621A-R	TRANSISTOR	1	2SB0621AH ⚠
Q702	2SC3940AQSTA	TRANSISTOR	1	2SC3940ARA ⚠
Q703	UN4211	TRANSISTOR	1	UNR4211
Q704	UN4111	TRANSISTOR	1	UNR4111
Q707	UN4111	TRANSISTOR	1	UNR4111
R100	ERDS2FJ103	1/4W 10K	1	
R101	ERDS2FJ392	1/4W 3.9K	1	
R102	ERDS2FJ102	1/4W 1K	1	
R103	ERDS2FJ100	10	1	⚠
R104	ERDS2FJ102	1/4W 1K	1	
R105	ERDS2FJ101	1/4W 100	1	
R106	ERD2FCG100	10	1	⚠
R107	ERDS2FJ331	1/4W 330	1	
R108	ERDS1FJ820	82	1	⚠
R109	ERDS2FJ473	1/4W 47K	1	
R110	ERDS2FJ392	1/4W 3.9K	1	
R111	ERDS1FJ181	180	1	⚠
R112	ERDS2FJ473	1/4W 47K	1	
R113	ERDS2FJ392	1/4W 3.9K	1	
R114	ERDS1FJ101	100	1	⚠
R115	ERQ16NKWR68E	0.68	1	⚠
R301,02	ERDS2FJ472	1/4W 4.7K	2	
R303,04	ERDS2FJ123	1/4W 12K	2	
R305,06	ERDS2FJ472	1/4W 4.7K	2	
R307,08	ERDS2FJ273	1/4W 27K	2	
R309-12	ERDS2FJ470	1/4W 47	4	
R313-16	ERDS2FJ102	1/4W 1K	4	
R323	ERDS2FJ472	1/4W 4.7K	1	
R326	ERDS2FJ821	1/4W 820	1	
R327-30	ERDS2FJ102	1/4W 1K	4	

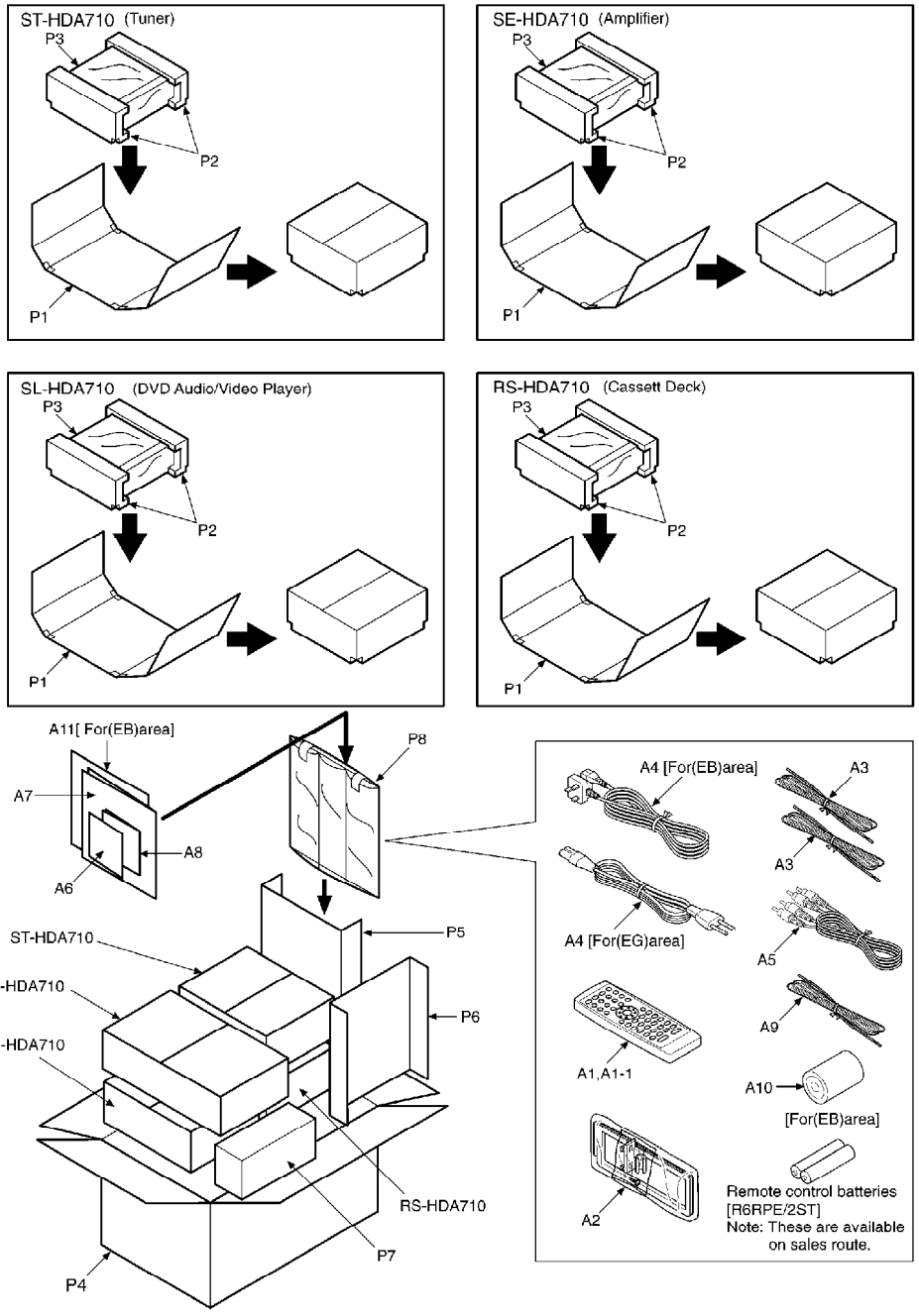
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R331	ERDS2FJ821	1/4W 820	1	
R332	ERDS2FJ102	1/4W 1K	1	
R333	ERDS2FJ122	1/4W 1.2K	1	
R334	ERDS2FJ152	1/4W 1.5K	1	
R343	ERDS2FJ472	1/4W 4.7K	1	
R344	ERDS2FJ102	1/4W 1K	1	
R345	ERDS2FJ222	1/4W 2.2K	1	
R346	ERDS2FJ102	1/4W 1K	1	
R347,48	ERDS2FJ474	1/4W 470K	2	
R403-06	ERDS2FJ123	1/4W 12K	4	
R407,08	ERDS2FJ122	1/4W 1.2K	2	
R413,14	ERDS2FJ102	1/4W 1K	2	
R417-20	ERDS2FJ223	1/4W 22K	4	
R421,22	ERDS2FJ222	1/4W 2.2K	2	
R423,24	ERDS2FJ332	1/4W 3.3K	2	
R425,26	ERDS2FJ102	1/4W 1K	2	
R427,28	ERDS2FJ682	1/4W 6.8K	2	
R429,30	ERDS2FJ103	1/4W 10K	2	
R431,32	ERDS2FJ331	1/4W 330	2	
R433,34	ERDS2FJ223	1/4W 22K	2	
R435-38	ERDS2FJ473	1/4W 47K	4	
R439,40	ERDS2FJ223	1/4W 22K	2	
R441,42	ERDS2FJ333	1/4W 33K	2	
R443,44	ERDS2FJ152	1/4W 1.5K	2	
R445,46	ERDS2FJ222	1/4W 2.2K	2	
R447-50	ERDS2FJ104	1/4W 100K	4	
R501,02	ERDS2FJ223	1/4W 22K	2	
R503,04	ERDS2FJ472	1/4W 4.7K	2	
R505,06	ERDS2FJ272	1/4W 2.7K	2	
R507,08	ERDS2FJ103	1/4W 10K	2	
R509,10	ERDS2FJ473	1/4W 47K	2	
R511,12	ERDS2FJ103	1/4W 10K	2	
R513,14	ERDS2FJ100	10	2	⚠
R515,16	ERDS2FJ123	1/4W 12K	2	
R517-20	ERDS2FJ102	1/4W 1K	4	
R521,22	ERDS2FJ122	1/4W 1.2K	2	
R523,24	ERDS2FJ102	1/4W 1K	2	
R525,26	ERDS2FJ103	1/4W 10K	2	
R527,28	ERDS2FJ100	10	2	⚠
R529,30	ERDS2FJ223	1/4W 22K	2	
R531,32	ERDS2FJ562	1/4W 5.6K	2	
R533,34	ERDS2FJ222	1/4W 2.2K	2	
R535,36	ERDS2FJ103	1/4W 10K	2	
R537,38	ERDS2FJ102	1/4W 1K	2	
R539,40	ERDS2FJ100	10	2	⚠
R541,42	ERDS2FJ123	1/4W 12K	2	
R543	ERDS2FJ124	1/4W 120K	1	
R544	ERDS2FJ823	1/4W 82K	1	
R545,46	ERDS1FJ471	470	2	⚠
R547,48	ERDS1FJ100	10	2	⚠
R549,50	ERX1SJR33	0.33	2	⚠
R551	ERDS2FJ823	1/4W 82K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R552	ERDS2FJ124	1/4W 120K	1	
R553,54	ERDS1FJ471	470	2	⚠
R555,56	ERDS1FJ100	10	2	⚠
R557	ERDS2FJ823	1/4W 82K	1	
R558	ERDS2FJ124	1/4W 120K	1	
R559,60	ERDS1FJ471	470	2	⚠
R561,62	ERDS1FJ100	10	2	⚠
R563	ERDS2FJ153	1/4W 15K	1	
R564	ERDS2FJ473	1/4W 47K	1	
R565	ERDS2FJ563	1/4W 56K	1	
R566	ERDS2FJ564	1/4W 560K	1	
R567	ERDS2FJ223	1/4W 22K	1	
R568	ERDS2FJ563	1/4W 56K	1	
R569	ERDS2FJ564	1/4W 560K	1	
R570	ERDS2FJ223	1/4W 22K	1	
R571	ERDS2FJ563	1/4W 56K	1	
R572	ERDS2FJ564	1/4W 560K	1	
R573	ERDS2FJ103	1/4W 10K	1	
R574	ERDS2FJ223	1/4W 22K	1	
R575	ERDS2FJ473	1/4W 47K	1	
R579	ERDS2FJ104	1/4W 100K	1	
R580,81	ERDS2FJ472	1/4W 4.7K	2	
R582	ERD2FCG220	22	1	⚠
R583	ERDS2FJ221	1/4W 220	1	
R585	ERDS2FJ393	1/4W 39K	1	
R586	ERDS2FJ223	1/4W 22K	1	
R587	ERDS2FJ393	1/4W 39K	1	
R588	ERD2FCG100	10	1	⚠
R702,03	ERDS2FJ102	1/4W 1K	2	
R704	ERDS2FJ332	1/4W 3.3K	1	
R705,06	ERDS2FJ102	1/4W 1K	2	
R707,08	ERD2FCG100	10	2	⚠
R714	ERDS2FJ1R0	1	1	⚠
R715	ERDS2FJ103	1/4W 10K	1	
RL101	RSY0017M-0	RELAY	1	⚠
RL701	RSY0040M-0	RELAY	1	⚠
S301-05	EVQ11G05R	SW,PUSH	5	
VR301	EVEKD2F3024B	V.R.,VOLUME	1	
VR401	RRV14F03B24A	V.R.,FINE TWEETER CONT.	1	
Z701	ERZV10V511CS	ZNR	1	⚠

14. Cabinet Parts Location



15. Packaging



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